FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP) Renewal OFFICE OF AIR QUALITY

Century Marble Company, Inc.
3525 State Road 32 West
Westfield, Indiana 46074

(herein known as the Permittee) is hereby authorized to operate subject to the conditions contained herein, the source described in Section A (Source Summary) of this permit.

This permit is issued in accordance with 326 IAC 2 and 40 CFR Part 70 Appendix A and contains the conditions and provisions specified in 326 IAC 2-8 as required by 42 U.S.C. 7401, et. seq. (Clean Air Act as amended by the 1990 Clean Air Act Amendments), 40 CFR Part 70.6, IC 13-15 and IC 13-17.

Operation Permit No.: F057-15198-00045	
Issued by:Original signed by Paul Dubenetzky Paul Dubenetzky, Branch Chief Office of Air Quality	Issuance Date: January 6, 2003 Expiration Date: January 6, 2008

SECTION D.3 FACILITY OPERATION CONDITIONS - 2.05 MMBtu No. 2 Fuel Oil Fired Boiler

Emission Limitations and Standards [326 IAC 2-8-4(1)]

D.3.1 Particulate [326 IAC 6-2]

Certification Form
Emergency Occurrence Form
Quarterly Report Forms
Quarterly Deviation and Compliance Monitoring Report Form

SECTION A SOURCE SUMMARY

This permit is based on information requested by the Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ). The information describing the source contained in conditions A.1 through A.3 is descriptive information and does not constitute enforceable conditions. However, the Permittee should be aware that a physical change or a change in the method of operation that may render this descriptive information obsolete or inaccurate may trigger requirements for the Permittee to obtain additional permits or seek modification of this permit pursuant to 326 IAC 2, or change other applicable requirements presented in the permit application.

A.1 General Information [326 IAC 2-8-3(b)]

The Permittee owns and operates a stationary fiberglass marble fixtures and flat marble surfaces manufacturing source.

Authorized individual:	President
Source Address:	3525 State Road 32 West, Westfield, Indiana 46074
Mailing Address:	3525 State Road 32 West, Westfield, Indiana 46074
General Source Phone:	317-867-5555
SIC Code:	3088
Source Location Status:	Hamilton Attainment for all criteria pollutants
Source Status:	Federally Enforceable State Operating Permit (FESOP) Minor Source, under PSD Rules; Minor Source, Section 112 of the Clean Air Act

A.2 Emission Units and Pollution Control Equipment Summary [326 IAC 2-8-3(c)(3)]

This stationary source consists of the following emission units and pollution control devices:

(a) one (1) gel coat spray booth, identified as Booth #1 (ID No. 007), utilizing an air atomized application system, coating marble fixtures using a maximum of 14.36 gallons per hour of gel coat, with dry filters for overspray control, and exhausting at one (1) stack, identified as EP007;

(b) one (1) open fiberglass marble fixture manufacturing process, consisting of open resin blenders (ID No. 009), utilizing a flowcoating application system, using a maximum of 15.0 gallons per hour of resin, exhausting at one (1) stack, identified as EP009;

(c) one (1) closed fiberglass marble panel manufacturing process, consisting of closed resin blenders (ID No. 005), utilizing a flowcoating application system, using a maximum of 15.0 gallons per hour of resin, exhausting at one (1) stack, identified as EP005;

(d) one (1) fiberglass marble panel sanding and cutting booth (ID No. 006), utilizing one (1) drum sander, with Toritt cartridge dust collectors for particulate matter control, exhausting through one (1) stack, identified as EP006;

(e) one (1) fiberglass marble fixture grinding booth (ID No. 008), utilizing hand grinders, with Toritt cartridge dust collectors for particulate matter control, exhausting through one (1) stack, identified as EP008, which vents internally; and

(f) one (1) No. 2 distillate fuel oil fired boiler (ID No. 004), rated at 2.05 million (MM) British thermal units (Btu) per hour, exhausting through one (1) stack, identified as EP004.

A.3 Insignificant Activities [326 IAC 2-7-1(21)] [326 IAC 2-8-3(c)(3)(I)]

This stationary source also includes the following insignificant activities, as defined in 326 IAC 2-7-1(21):

(a) two (2) polyester resin storage tanks (ID Nos. 00291 and 00146), each with a storage capacity of 5,880 gallons, each exhausting through one (1) stack, identified as EP001 and EP002, respectively; and

(b) one (1) fiberglass marble fixture buffing booth.

A.4 FESOP Applicability [326 IAC 2-8-2]

This stationary source, otherwise required to have a Part 70 permit as described in 326 IAC 2-7-2(a), has applied to the Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ) to renew a Federally Enforceable State Operating Permit (FESOP).

A.5 Prior Permits Superseded [326 IAC 2-1.1-9.5]

(a) All terms and conditions of previous permits issued pursuant to permitting programs approved into the state implementation plan have been either

(1) incorporated as originally stated,

(2) revised, or

(3) deleted

by this permit.

(b) All previous registrations and permits are superseded by this permit.

SECTION B GENERAL CONDITIONS

B.1 Permit No Defense [IC 13]

Indiana statutes from IC 13 and rules from 326 IAC, quoted in conditions in this permit, are those applicable at the time the permit was issued. The issuance or possession of this permit shall not alone constitute a defense against an alleged violation of any law, regulation or standard, except for the requirement to obtain a FESOP under 326 IAC 2-8.

B.2 Definitions [326 IAC 2-8-1]

Terms in this permit shall have the definition assigned to such terms in the referenced regulation. In the absence of definitions in the referenced regulation, the applicable definitions found in the statutes or regulations (IC 13-11, 326 IAC 1-2, and 326 IAC 2-7) shall prevail.

B.3 Permit Term [326 IAC 2-8-4(2)][326 IAC 2-1.1-9.5]

This permit is issued for a fixed term of five (5) years from the issuance date of this permit, as determined in accordance with IC 4-21.5-3-5(f) and IC 13-15-5-3. Subsequent revisions, modifications, or amendments of this permit do not affect the expiration date.

B.4 Enforceability [326 IAC 2-8-6]

Unless otherwise stated, all terms and conditions in this permit, including any provisions designed to limit the source's potential to emit, are enforceable by IDEM, the United States Environmental Protection Agency (U.S. EPA) and by citizens in accordance with the Clean Air Act.

B.5 Termination of Right to Operate [326 IAC 2-8-9] [326 IAC 2-8-3(h)]

The Permittee's right to operate this source terminates with the expiration of this permit unless a timely and complete renewal application is submitted at least nine (9) months prior to the date of expiration of the source's existing permit, consistent with 326 IAC 2-8-3(h) and 326 IAC 2-8-9.

B.6 Severability [326 IAC 2-8-4(4)]

The provisions of this permit are severable; a determination that any portion of this permit is invalid shall not affect the validity of the remainder of the permit.

B.7 Property Rights or Exclusive Privilege [326 IAC 2-8-4(5)(D)]

This permit does not convey any property rights of any sort, or any exclusive privilege.

B.8 Duty to Supplement and Provide Information [326 IAC 2-8-3(f)] [326 IAC 2-8-4(5)(E)] [326 IAC 2-8-5(a)(4)]

(a) The Permittee, upon becoming aware that any relevant facts were omitted or incorrect information was submitted in the permit application, shall promptly submit such supplementary facts or corrected information to:

Indiana Department of Environmental Management
Permits Branch, Office of Air Quality
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

The submittal by the Permittee does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

(b) The Permittee shall furnish to IDEM, OAQ within a reasonable time, any information that IDEM, OAQ may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. The submittal by the Permittee does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1). Upon request, the Permittee shall also furnish to IDEM, OAQ copies of records required to be kept by this permit.

(c) For information furnished by the Permittee to IDEM, OAQ, the Permittee may include a claim of confidentiality in accordance with 326 IAC 17.1 When furnishing copies of requested records directly to U. S. EPA, the Permittee may assert a claim of confidentiality in accordance with 40 CFR 2, Subpart B.

B.9 Compliance Order Issuance [326 IAC 2-8-5(b)]

IDEM, OAQ may issue a compliance order to this Permittee upon discovery that this permit is in nonconformance with an applicable requirement. The order may require immediate compliance or contain a schedule for expeditious compliance with the applicable requirement.

B.10 Compliance with Permit Conditions [326 IAC 2-8-4(5)(A)] [326 IAC 2-8-4(5)(B)]

(a) The Permittee must comply with all conditions of this permit. Noncompliance with any provisions of this permit is grounds for:

(1) Enforcement action;

(2) Permit termination, revocation and reissuance, or modification; and

(3) Denial of a permit renewal application.

(b) It shall not be a defense for the Permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

(c) An emergency does constitute an affirmative defense in an enforcement action provided the Permittee complies with the applicable requirements set forth in Section B, Emergency Provisions.

B.11 Certification [326 IAC 2-8-3(d)] [326 IAC 2-8-4(3)(C)(i)] [326 IAC 2-8-5(1)]

(a) Where specifically designated by this permit or required by an applicable requirement, any application form, report, or compliance certification submitted shall contain certification by an authorized individual of truth, accuracy, and completeness. This certification, shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.

(b) One (1) certification shall be included, using the attached Certification Form, with each submittal requiring certification.

(c) An authorized individual is defined at 326 IAC 2-1.1-1(1).

B.12 Annual Compliance Certification [326 IAC 2-8-5(a)(1)]

(a) The Permittee shall annually submit a compliance certification report which addresses the status of the source's compliance with the terms and conditions contained in this permit, including emission limitations, standards, or work practices. All certifications shall cover the time period from January 1 to December 31 of the previous year, and shall be submitted in letter form no later than July 1 of each year to:

Indiana Department of Environmental Management
Compliance Branch, Office of Air Quality
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

(b) The annual compliance certification report required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ on or before the date it is due.

(c) The annual compliance certification report shall include the following:

(1) The appropriate identification of each term or condition of this permit that is the basis of the certification;

(2) The compliance status;

(3) Whether compliance was continuous or intermittent;

(4) The methods used for determining the compliance status of the source, currently and over the reporting period consistent with 326 IAC 2-8-4(3); and

(5) Such other facts as specified in Sections D of this permit, IDEM, OAQ may require to determine the compliance status of the source.

The notification which shall be submitted by the Permittee does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

B.13 Preventive Maintenance Plan [326 IAC 1-6-3] [326 IAC 2-8-4(9)] [326 IAC 2-8-5(a)(1)]

(a) If required by specific condition(s) in Section D of this permit, the Permittee shall maintain and implement Preventive Maintenance Plans (PMPs), including the following information on each facility:

(1) Identification of the individual(s) responsible for inspecting, maintaining, and repairing emission control devices;

(2) A description of the items or conditions that will be inspected and the inspection schedule for said items or conditions; and

(3) Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.

(b) The Permittee shall implement the PMPs as necessary to ensure that failure to implement a PMP does not cause or contribute to a violation of any limitation on emissions or potential to emit.

(c) A copy of the PMPs shall be submitted to IDEM, OAQ upon request and within a reasonable time, and shall be subject to review and approval by IDEM, OAQ. IDEM, OAQ may require the Permittee to revise its PMPs whenever lack of proper maintenance causes or contributes to any violation. The PMP does not require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

(d) Records of preventive maintenance shall be retained for a period of at least five (5) years. These records shall be kept at the source location for a minimum of three (3) years. The records may be stored elsewhere for the remaining two (2) years as long as they are available upon request. If the Commissioner makes a request for records to the Permittee, the Permittee shall furnish the records to the Commissioner within a reasonable time.

B.14 Emergency Provisions [326 IAC 2-8-12]

(a) An emergency, as defined in 326 IAC 2-7-1(12), is not an affirmative defense for an action brought for noncompliance with a federal or state health-based emission limitation, except as provided in 326 IAC 2-8-12.

(b) An emergency, as defined in 326 IAC 2-7-1(12), constitutes an affirmative defense to an action brought for noncompliance with a health-based or technology-based emission limitation if the affirmative defense of an emergency is demonstrated through properly signed, contemporaneous operating logs or other relevant evidence that describes the following:

(1) An emergency occurred and the Permittee can, to the extent possible, identify the causes of the emergency;

(2) The permitted facility was at the time being properly operated;

(3) During the period of an emergency, the Permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards or other requirements in this permit;

(4) For each emergency lasting one (1) hour or more, the Permittee notified IDEM, OAQ within four (4) daytime business hours after the beginning of the emergency, or after the emergency was discovered or reasonably should have been discovered;

Telephone No.: 1-800-451-6027 (ask for Office of Air Quality, Compliance Section) or,
Telephone No.: 317-233-5674 (ask for Compliance Section)
Facsimile No.: 317-233-5967

(5) For each emergency lasting one (1) hour or more, the Permittee submitted the attached Emergency Occurrence Report Form or its equivalent, either by mail or facsimile to:

Indiana Department of Environmental Management
Compliance Branch, Office of Air Quality
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

within two (2) working days of the time when emission limitations were exceeded due to the emergency.

The notice fulfills the requirement of 326 IAC 2-8-4(3)(C)(ii) and must contain the following:

(A) A description of the emergency;

(B) Any steps taken to mitigate the emissions; and

(C) Corrective actions taken.

The notification which shall be submitted by the Permittee does not require the certification by the “authorized individual” as defined by 326 IAC 2-1.1-1(1).

(6) The Permittee immediately took all reasonable steps to correct the emergency.

(c) In any enforcement proceeding, the Permittee seeking to establish the occurrence of an emergency has the burden of proof.

(d) This emergency provision supersedes 326 IAC 1-6 (Malfunctions). This permit condition is in addition to any emergency or upset provision contained in any applicable requirement.

(e) IDEM, OAQ may require that the Preventive Maintenance Plans required under 326 IAC 2-8-3(c)(6) be revised in response to an emergency.

(f) Failure to notify IDEM, OAQ by telephone or facsimile of an emergency lasting more than one (1) hour in accordance with (b)(4) and (5) of this condition shall constitute a violation of 326 IAC 2-8 and any other applicable rules.

(g) Operations may continue during an emergency only if the following conditions are met:

(1) If the emergency situation causes a deviation from a technology-based limit, the Permittee may continue to operate the affected emitting facilities during the emergency provided the Permittee immediately takes all reasonable steps to correct the emergency and minimize emissions.

(2) If an emergency situation causes a deviation from a health-based limit, the Permittee may not continue to operate the affected emissions facilities unless:

(A) The Permittee immediately takes all reasonable steps to correct the emergency situation and to minimize emissions; and

(B) Continued operation of the facilities is necessary to prevent imminent injury to persons, severe damage to equipment, substantial loss of capital investment, or loss of product or raw material of substantial economic value.

Any operations shall continue no longer than the minimum time required to prevent the situations identified in (g)(2)(B) of this condition.

(h) Permittee shall include all emergencies in the Quarterly Deviation and Compliance Monitoring Report.

B.15 Deviations from Permit Requirements and Conditions [326 IAC 2-8-4(3)(C)(ii)]

(a) Deviations from any permit requirements (for emergencies see Section B - Emergency Provision), the probable cause of such deviations, and any response steps or preventive measures taken shall be reported to:

Indiana Department of Environmental Management
Compliance Data Section, Office of Air Quality
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

using the attached Quarterly Deviation and Compliance Monitoring Report, or its equivalent. A deviation required to be reported pursuant to an applicable requirement that exists independent of this permit, shall be reported according to the schedule stated in the applicable requirement and does need to be included in this report.

The Quarterly Deviation and Compliance Monitoring Report does require the certification by the “authorized individual” as defined by 326 IAC 2-1.1-1(1).

(b) A deviation is an exceedance of a permit limitation or a failure to comply with a requirement of the permit.

B.16 Permit Modification, Reopening, Revocation and Reissuance, or Termination [326 IAC 2-8-4(5)(C)] [326 IAC 2-8-7(a)] [326 IAC 2-8-8]

(a) This permit may be modified, reopened, revoked and reissued, or terminated for cause. The filing of a request by the Permittee for a FESOP modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any condition of this permit. [326 IAC 2-8-4(5)(C)] The notification by the Permittee does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

(b) This permit shall be reopened and revised under any of the circumstances listed in IC 13-15-7-2 or if IDEM, OAQ determines any of the following:

(1) That this permit contains a material mistake.

(2) That inaccurate statements were made in establishing the emissions standards or other terms or conditions.

(3) That this permit must be revised or revoked to assure compliance with an applicable requirement. [326 IAC 2-8-8(a)]

(c) Proceedings by IDEM, OAQ to reopen and revise this permit shall follow the same procedures as apply to initial permit issuance and shall affect only those parts of this permit for which cause to reopen exists. Such reopening and revision shall be made as expeditiously as practicable. [326 IAC 2-8-8(b)]

(d) The reopening and revision of this permit, under 326 IAC 2-8-8(a), shall not be initiated before notice of such intent is provided to the Permittee by IDEM, OAQ at least thirty (30) days in advance of the date this permit is to be reopened, except that IDEM, OAQ may provide a shorter time period in the case of an emergency. [326 IAC 2-8-8(c)]

B.17 Permit Renewal [326 IAC 2-8-3(h)]

(a) The application for renewal shall be submitted using the application form or forms prescribed by IDEM, OAQ and shall include the information specified in 326 IAC 2-8-3. Such information shall be included in the application for each emission unit at this source, except those emission units included on the trivial or insignificant activities list contained in 326 IAC 2-7-1(21) and 326 IAC 2-7-1(40). The renewal application does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

Request for renewal shall be submitted to:

Indiana Department of Environmental Management
Permits Branch, Office of Air Quality
100 North Senate Avenue, P.O. Box 6015
Indianapolis, IN 46206-6015

(b) Timely Submittal of Permit Renewal [326 IAC 2-8-3]

(1) A timely renewal application is one that is:

(A) Submitted at least nine (9) months prior to the date of the expiration of this permit; and

(B) If the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ on or before the date it is due.

(2) If IDEM, OAQ upon receiving a timely and complete permit application, fails to issue or deny the permit renewal prior to the expiration date of this permit, this existing permit shall not expire and all terms and conditions shall continue in effect until the renewal permit has been issued or denied.

(c) Right to Operate After Application for Renewal [326 IAC 2-8-9]
If the Permittee submits a timely and complete application for renewal of this permit, the source's failure to have a permit is not a violation of 326 IAC 2-8 until IDEM, OAQ takes final action on the renewal application, except that this protection shall cease to apply if, subsequent to the completeness determination, the Permittee fails to submit by the deadline specified in writing by IDEM, OAQ any additional information identified as needed to process the application.

B.18 Permit Amendment or Revision [326 IAC 2-8-10] [326 IAC 2-8-11.1]

(a) Permit amendments and revisions are governed by the requirements of 326 IAC 2-8-10 or 326 IAC 2-8-11.1 whenever the Permittee seeks to amend or modify this permit.

(b) Any application requesting an amendment or modification of this permit shall be submitted to:

Indiana Department of Environmental Management
Permits Branch, Office of Air Quality
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

Any such application shall be certified by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

(c) The Permittee may implement the administrative amendment changes addressed in the request for an administrative amendment immediately upon submittal of the request. [326 IAC 2-8-10(b)(3)]

B.19 Operational Flexibility [326 IAC 2-8-15][326 IAC 2-8-11.1]

(a) The Permittee may make any change or changes at this source that are described in 326 IAC 2-8-15(b) through (d), without prior permit revision, if each of the following conditions is met:

(1) The changes are not modifications under any provision of Title I of the Clean Air Act;

(2) Any approval required by 326 IAC 2-8-11.1 has been obtained;

(3) The changes do not result in emissions which exceed the emissions allowable under this permit (whether expressed herein as a rate of emissions or in terms of total emissions);

(4) The Permittee notifies the:

Indiana Department of Environmental Management
Permits Branch, Office of Air Quality
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

and

United States Environmental Protection Agency, Region V
Air and Radiation Division, Regulation Development Branch - Indiana (AR-18J)
77 West Jackson Boulevard
Chicago, Illinois 60604-3590

in advance of the change by written notification at least ten (10) days in advance of the proposed change. The Permittee shall attach every such notice to the Permittee's copy of this permit; and

(5) The Permittee maintains records on-site which document, on a rolling five (5) year basis, all such changes and emissions trading that are subject to 326 IAC 2-8-15(b) through (d) and makes such records available, upon reasonable request, to public review.

Such records shall consist of all information required to be submitted to IDEM, OAQ in the notices specified in 326 IAC 2-8-15(b)(2), (c)(1), and (d).

(b) Emission Trades [326 IAC 2-8-15(c)]
The Permittee may trade increases and decreases in emissions in the source, where the applicable SIP provides for such emission trades without requiring a permit revision, subject to the constraints of Section (a) of this condition and those in 326 IAC 2-8-15(c).

(c) Alternative Operating Scenarios [326 IAC 2-8-15(d)]
The Permittee may make changes at the source within the range of alternative operating scenarios that are described in the terms and conditions of this permit in accordance with 326 IAC 2-8-4(7). No prior notification of IDEM, OAQ or U.S. EPA is required.

B.20 Permit Revision Requirement [326 IAC 2-8-11.1]

A modification, construction, or reconstruction is governed by the requirements of 326 IAC 2 and 326 IAC 2-8-11.1.

B.21 Inspection and Entry [326 IAC 2-8-5(a)(2)] [IC 13-14-2-2]

Upon presentation of proper identification cards, credentials, and other documents as may be required by law, and subject to the Permittee's right under all applicable laws and regulations to assert that the information collected by the agency is confidential and entitled to be treated as such, the Permittee shall allow IDEM, OAQ, U.S. EPA, or an authorized representative to perform the following:

(a) Enter upon the Permittee's premises where a FESOP source is located, or emissions related activity is conducted, or where records must be kept under the conditions of this permit;

(b) Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;

(c) Inspect, at reasonable times, any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit;

(d) Sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with this permit or applicable requirements; and

(e) Utilize any photographic, recording, testing, monitoring, or other equipment for the purpose of assuring compliance with this permit or applicable requirements.

B.22 Transfer of Ownership or Operational Control [326 IAC 2-8-10]

(a) The Permittee must comply with the requirements of 326 IAC 2-8-10 whenever the Permittee seeks to change the ownership or operational control of the source and no other change in the permit is necessary.

(b) Any application requesting a change in the ownership or operational control of the source shall contain a written agreement containing a specific date for transfer of permit responsibility, coverage and liability between the current and new Permittee. The application shall be submitted to:

Indiana Department of Environmental Management
Permits Branch, Office of Air Quality
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

The application which shall be submitted by the Permittee does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

(c) The Permittee may implement administrative amendment changes addressed in the request for an administrative amendment immediately upon submittal of the request. [326 IAC 2-8-10(b)(3)]

B.23 Annual Fee Payment [326 IAC 2-7-19] [326 IAC 2-8-4(6)] [326 IAC 2-8-16][326 IAC 2-1.1-7]

(a) The Permittee shall pay annual fees to IDEM, OAQ, within thirty (30) calendar days of receipt of a billing. Pursuant to 326 IAC 2-7-19(b), if the Permittee does not receive a bill from IDEM, OAQ the applicable fee is due April 1 of each year.

(b) Failure to pay may result in administrative enforcement action, or revocation of this permit.

(c) The Permittee may call the following telephone numbers: 1-800-451-6027 or 317-233-4320 (ask for OAQ, I/M & Billing Section), to determine the appropriate permit fee.

SECTION C SOURCE OPERATION CONDITIONS

Entire Source

Emissions Limitations and Standards [326 IAC 2-8-4(1)]

C.1 Particulate Emission Limitations For Processes with Process Weight Rates Less Than One Hundred (100) pounds per hour [40 CFR 52 Subpart P][326 IAC 6-3-2]

(a) Pursuant to 40 CFR 52 Subpart P, the allowable particulate matter emissions rate from any process not already regulated by 326 IAC 6-1 or any New Source Performance Standard, and which has a maximum process weight rate less than 100 pounds per hour shall not exceed 0.551 pounds per hour.

(b) Pursuant to 326 IAC 6-3-2(e)(2), the allowable particulate emissions rate from any process not exempt under 326 IAC 6-3-1(b) or (c) which has a maximum process weight rate less than 100 pounds per hour and the methods in 326 IAC 6-3-2(b) through (d) do not apply shall not exceed 0.551 pounds per hour.

C.2 Overall Source Limit [326 IAC 2-8]

The purpose of this permit is to limit this source's potential to emit to less than major source levels for the purpose of Section 502(a) of the Clean Air Act.

(a) Pursuant to 326 IAC 2-8:

(1) The potential to emit any regulated pollutant, except particulate matter (PM), from the entire source shall be limited to less than one-hundred (100) tons per twelve (12) consecutive month period. This limitation shall also make the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) not applicable;

(2) The potential to emit any individual hazardous air pollutant (HAP) from the entire source shall be limited to less than ten (10) tons per twelve (12) consecutive month period; and

(3) The potential to emit any combination of HAPs from the entire source shall be limited to less than twenty-five (25) tons per twelve (12) consecutive month period.

(b) Pursuant to 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)), potential to emit particulate matter (PM) from the entire source shall be limited to less than two hundred fifty (250) tons per twelve (12) consecutive month period.

(c) This condition shall include all emission points at this source including those that are insignificant as defined in 326 IAC 2-7-1(21). The source shall be allowed to add insignificant activities not already listed in this permit, provided that the source's potential to emit does not exceed the above specified limits.

(d) Section D of this permit contains independently enforceable provisions to satisfy this requirement.

C.3 Opacity [326 IAC 5-1]

Pursuant to 326 IAC 5-1-2 (Opacity Limitations), except as provided in 326 IAC 5-1-3 (Temporary Alternative Opacity Limitations), opacity shall meet the following, unless otherwise stated in this permit:

(a) Opacity shall not exceed an average of forty percent (40%) in any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.

(b) Opacity shall not exceed sixty percent (60%) for more than a cumulative total of fifteen (15) minutes (sixty (60) readings as measured according to 40 CFR 60, Appendix A, Method 9 or fifteen (15) one (1) minute nonoverlapping integrated averages for a continuous opacity monitor) in a six (6) hour period.

C.4 Open Burning [326 IAC 4-1] [IC 13-17-9]

The Permittee shall not open burn any material except as provided in 326 IAC 4-1-3, 326 IAC 4-1-4 or 326 IAC 4-1-6. The previous sentence notwithstanding, the Permittee may open burn in accordance with an open burning approval issued by the Commissioner under 326 IAC 4-1-4.1.

C.5 Incineration [326 IAC 4-2] [326 IAC 9-1-2(3)]

The Permittee shall not operate an incinerator or incinerate any waste or refuse except as provided in 326 IAC 4-2 and in 326 IAC 9-1-2.

C.6 Fugitive Dust Emissions [326 IAC 6-4]

The Permittee shall not allow fugitive dust to escape beyond the property line or boundaries of the property, right-of-way, or easement on which the source is located, in a manner that would violate 326 IAC 6-4 (Fugitive Dust Emissions).

C.7 Operation of Equipment [326 IAC 2-8-5(a)(4)]

Except as otherwise provided by statute, rule or in this permit, all air pollution control equipment listed in this permit and used to comply with an applicable requirement shall be operated at all times that the emission units vented to the control equipment are in operation.

C.8 Stack Height [326 IAC 1-7]

The Permittee shall comply with the applicable provisions of 326 IAC 1-7 (Stack Height Provisions), for all exhaust stacks through which a potential (before controls) of twenty-five (25) tons per year or more of particulate matter or sulfur dioxide is emitted.

C.9 Asbestos Abatement Projects [326 IAC 14-10] [326 IAC 18] [40 CFR 61, Subpart M]

(a) Notification requirements apply to each owner or operator. If the combined amount of regulated asbestos containing material (RACM) to be stripped, removed or disturbed is at least 260 linear feet on pipes or 160 square feet on other facility components, or at least thirty-five (35) cubic feet on all facility components, then the notification requirements of 326 IAC 14-10-3 are mandatory. All demolition projects require notification whether or not asbestos is present.

(b) The Permittee shall ensure that a written notification is sent on a form provided by the Commissioner at least ten (10) working days before asbestos stripping or removal work or before demolition begins, per 326 IAC 14-10-3, and shall update such notice as necessary, including, but not limited to the following:

(1) When the amount of affected asbestos containing material increases or decreases by at least twenty percent (20%); or

(2) If there is a change in the following:

(A) Asbestos removal or demolition start date;

(B) Removal or demolition contractor; or

(C) Waste disposal site.

(c) The Permittee shall ensure that the notice is postmarked or delivered according to the guidelines set forth in 326 IAC 14-10-3(2).

(d) The notice to be submitted shall include the information enumerated in 326 IAC 14-10-3(3).

All required notifications shall be submitted to:

Indiana Department of Environmental Management
Asbestos Section, Office of Air Quality
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

The notice shall include a signed certification from the owner or operator that the information provided in this notification is correct and that only Indiana licensed workers and project supervisors will be used to implement the asbestos removal project. The notifications do not require a certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

(e) Procedures for Asbestos Emission Control
The Permittee shall comply with the applicable emission control procedures in 326 IAC 14-10-4 and 40 CFR 61.145(c). Per 326 IAC 14-10-1 emission control requirements are applicable for any removal or disturbance of RACM greater than three (3) linear feet on pipes or three (3) square feet on any other facility components or a total of at least 0.75 cubic feet on all facility components.

(f) Indiana Accredited Asbestos Inspector
The Permittee shall comply with 326 IAC 14-10-1(a) that requires the owner or operator, prior to a renovation/demolition, to use an Indiana Accredited Asbestos Inspector to thoroughly inspect the affected portion of the facility for the presence of asbestos. The requirement that the inspector be accredited is federally enforceable.

Testing Requirements [326 IAC 2-8-4(3)]

C.10 Performance Testing [326 IAC 3-6]

(a) All testing shall be performed according to the provisions of 326 IAC 3-6 (Source Sampling Procedures), except as provided elsewhere in this permit, utilizing any applicable procedures and analysis methods specified in 40 CFR 51, 40 CFR 60, 40 CFR 61, 40 CFR 63, 40 CFR 75, or other procedures approved by IDEM, OAQ.

A test protocol, except as provided elsewhere in this permit, shall be submitted to:

Indiana Department of Environmental Management
Compliance Data Section, Office of Air Quality
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015

no later than thirty-five (35) days prior to the intended test date. The protocol submitted by the Permittee does not require certification by the “authorized individual” as defined by 326 IAC 2-1.1-1(1).

(b) The Permittee shall notify IDEM, OAQ of the actual test date at least fourteen (14) days prior to the actual test date. The notification submitted by the Permittee does not require certification by the “authorized individual” as defined by 326 IAC 2-1.1-1(1).

(c) Pursuant to 326 IAC 3-6-4(b), all test reports must be received by IDEM, OAQ not later than forty-five (45) days after the completion of the testing. An extension may be granted by IDEM, OAQ, if the source submits to IDEM, OAQ, a reasonable written explanation not later than five (5) days prior to the end of the initial forty-five (45) day period.

Compliance Requirements [326 IAC 2-1.1-11]

C.11 Compliance Requirements [326 IAC 2-1.1-11]

The commissioner may require stack testing, monitoring, or reporting at any time to assure compliance with all applicable requirements by issuing an order under 326 IAC 2-1.1-11. Any monitoring or testing shall be performed in accordance with 326 IAC 3 or other methods approved by the commissioner or the U. S. EPA.

Compliance Monitoring Requirements [326 IAC 2-8-4] [326 IAC 2-8-5(a)(1)]

C.12 Compliance Monitoring [326 IAC 2-8-4(3)] [326 IAC 2-8-5(a)(1)]

Unless otherwise specified in this permit, all monitoring and record keeping requirements not already legally required shall be implemented upon issuance of this permit. If required by Section D, the Permittee shall be responsible for installing any necessary equipment and initiating any required monitoring related to that equipment.

Unless otherwise specified in the approval for the new emissions unit, compliance monitoring for new emission units or emission units added through a permit revision shall be implemented when operation begins.

C.13 Monitoring Methods [326 IAC 3] [40 CFR 60] [40 CFR 63]

Any monitoring or testing performed required by Section D of this permit shall be performed according to the provisions of 326 IAC 3, 40 CFR 60, Appendix A, 40 CFR 60 Appendix B, 40 CFR 63 or other approved methods as specified in this permit.

C.14 Pressure Gauge and Other Instrument Specifications [326 IAC 2-1.1-11] [326 IAC 2-8-4(3)] [326 IAC 2-8-5(1)]

(a) Whenever a condition in this permit requires the measurement of pressure drop across any part of the unit or its control device, the gauge employed shall have a scale such that the expected normal reading shall be no less than twenty percent (20%) of full scale and be accurate within plus or minus two percent (±2%) of full scale reading.

(b) Whenever a condition in this permit requires the measurement of a temperature or flow rate the instrument employed shall have a scale such that the expected normal reading shall be no less than twenty percent (20%) of full scale and be accurate within plus or minus two percent (±2%) of full scale reading.

(c) The Preventive Maintenance Plan for the pH meter shall include calibration using known standards. The frequency of calibration shall be adjusted such that the typical error found at calibration is less than one pH point.

(d) The Permittee may request the IDEM, OAQ approve the use of a pressure gauge or other instrument that does not meet the above specifications provided the Permittee can demonstrate an alternative pressure gauge or other instrument specification will adequately ensure compliance with permit conditions requiring the measurement of pressure drop or other parameters.

Corrective Actions and Response Steps [326 IAC 2-8-4] [326 IAC 2-8-5(a)(1)]

C.15 Risk Management Plan [326 IAC 2-8-4] [40 CFR 68.215]

If a regulated substance, subject to 40 CFR 68, is present at a source in more than a threshold quantity, 40 CFR 68 is an applicable requirement and the Permittee shall submit:

(a) A compliance schedule for meeting the requirements of 40 CFR 68; or

(b) As a part of the annual compliance certification submitted under 326 IAC 2-7-6(5), a certification statement that the source is in compliance with all the requirements of 40 CFR 68, including the registration and submission of a Risk Management Plan (RMP).

All documents submitted pursuant to this condition shall include the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

C.16 Compliance Response Plan - Preparation, Implementation, Records, and Reports [326 IAC 2-8-4] [326 IAC 2-8-5]

(a) The Permittee is required to prepare a Compliance Response Plan (CRP) for each compliance monitoring condition of this permit. A CRP shall be submitted to IDEM, OAQ upon request. The CRP shall be prepared within ninety (90) days after issuance of this permit by the Permittee, supplemented from time to time by the Permittee, maintained on site, and is comprised of:

(1) Reasonable response steps that may be implemented in the event that a response step is needed pursuant to the requirements of Section D of this permit; and an expected time frame for taking reasonable response steps.

(2) If, at any time, the Permittee takes reasonable response steps that are not set forth in the Permittee's current Compliance Response Plan and the Permittee documents such response in accordance with subsection (e) below, the Permittee shall amend its Compliance Response Plan to include such response steps taken.

(b) For each compliance monitoring condition of this permit, reasonable response steps shall be taken when indicated by the provisions of that compliance monitoring condition as follows:

(1) Reasonable response steps shall be taken as set forth in the Permittee's current Compliance Response Plan; or

(2) If none of the reasonable response steps listed in the Compliance Response Plan is applicable or responsive to the excursion, the Permittee shall devise and implement additional response steps as expeditiously as practical. Taking such additional response steps shall not be considered a deviation from this permit so long as the Permittee documents such response steps in accordance with this condition.

(1) If the Permittee determines that additional response steps would necessitate that the emissions unit or control device be shut down, the IDEM, OAQ shall be promptly notified of the expected date of the shut down, the status of the applicable compliance monitoring parameter with respect to normal, and the results of the actions taken up to the time of notification.

(2) Failure to take reasonable response steps shall constitute a violation of the permit.

(c) The Permittee is not required to take any further response steps for any of the following reasons:

(1) A false reading occurs due to the malfunction of the monitoring equipment and prompt action was taken to correct the monitoring equipment.

(2) The Permittee has determined that the compliance monitoring parameters established in the permit conditions are technically inappropriate, has previously submitted a request for an administrative amendment to the permit, and such request has not been denied.

(3) An automatic measurement was taken when the process was not operating.

(4) The process has already returned or is returning to operating within "normal" parameters and no response steps are required.

(d) When implementing reasonable steps in response to a compliance monitoring condition, if the Permittee determines that an exceedance of an emission limitation has occurred, the Permittee shall report such deviations pursuant to Section B-Deviations from Permit Requirements and Conditions.

(e) The Permittee shall record all instances when response steps are taken. In the event of an emergency, the provisions of 326 IAC 2-8-12 (Emergency Provisions) requiring prompt corrective action to mitigate emissions shall prevail.

(f) Except as otherwise provided by a rule or provided specifically in Section D, all monitoring as required in Section D shall be performed when the emission unit is operating, except for time necessary to perform quality assurance and maintenance activities.

C.17 Actions Related to Noncompliance Demonstrated by a Stack Test [326 IAC 2-8-4] [326 IAC 2-8-5]

(a) When the results of a stack test performed in conformance with Section C - Performance Testing, of this permit exceed the level specified in any condition of this permit, the Permittee shall take appropriate response actions. The Permittee shall submit a description of these response actions to IDEM, OAQ, within thirty (30) days of receipt of the test results. The Permittee shall take appropriate action to minimize excess emissions from the affected facility while the response actions are being implemented.

(b) A retest to demonstrate compliance shall be performed within one hundred twenty (120) days of receipt of the original test results. Should the Permittee demonstrate to IDEM, OAQ that retesting in one-hundred and twenty (120) days is not practicable, IDEM, OAQ may extend the retesting deadline.

(c) IDEM, OAQ reserves the authority to take any actions allowed under law in response to noncompliant stack tests.

The documents submitted pursuant to this condition do require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

Record Keeping and Reporting Requirements [326 IAC 2-8-4(3)]

C.18 General Record Keeping Requirements [326 IAC 2-8-4(3)] [326 IAC 2-8-5]

(a) Records of all required data, reports and support information shall be retained for a period of at least five (5) years from the date of monitoring sample, measurement, report, or application. These records shall be kept at the source location for a minimum of three (3) years. The records may be stored elsewhere for the remaining two (2) years as long as they are available upon request. If the Commissioner makes a request for records to the Permittee, the Permittee shall furnish the records to the Commissioner within a reasonable time.

(b) Unless otherwise specified in this permit, all record keeping requirements not already legally required shall be implemented within ninety (90) days of permit issuance.

C.19 General Reporting Requirements [326 IAC 2-8-4(3)(C)] [326 IAC 2-1.1-11]

(a) The source shall submit the attached Quarterly Deviation and Compliance Monitoring Report or its equivalent. Any deviation from permit requirements, the date(s) of each deviation, the cause of the deviation, and the response steps taken must be reported. This report shall be submitted within thirty (30) days of the end of the reporting period. The Quarterly Deviation and Compliance Monitoring Report shall include the certification by the "authorized individual" as defined by 326 IAC2-1.1-1(1).

(b) The report required in (a) of this condition and reports required by conditions in Section D of this permit shall be submitted to:

Indiana Department of Environmental Management
Compliance Data Section, Office of Air Quality
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015

(c) Unless otherwise specified in this permit, any notice, report, or other submission required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ on or before the date it is due.

(d) Unless otherwise specified in this permit, all reports required in Section D of this permit shall be submitted within thirty (30) days of the end of the reporting period. All reports do require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

(e) Reporting periods are based on calendar years.

C.20 Compliance with 40 CFR 82 and 326 IAC 22-1

Pursuant to 40 CFR 82 (Protection of Stratospheric Ozone), Subpart F, except as provided for motor vehicle air conditioners in Subpart B, the Permittee shall comply with the standards for recycling and emissions reduction:

(a) Persons opening appliances for maintenance, service, repair or disposal must comply with the required practices pursuant to 40 CFR 82.156

(b) Equipment used during the maintenance, service, repair or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to 40 CFR 82.158.

(c) Persons performing maintenance, service, repair or disposal of appliances must be certified by an approved technician certification program pursuant to 40 CFR 82.161.

SECTION D.1 FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-8-4(10)]:
(a) one (1) gel coat spray booth, identified as Booth #1 (ID No. 007), utilizing an air atomized application system, coating marble fixtures using a maximum of 14.36 gallons per hour of gel coat, with dry filters for overspray control, and exhausting at one (1) stack, identified as EP007;
(b) one (1) open fiberglass marble fixture manufacturing process, consisting of open resin blenders (ID No. 009), utilizing a flowcoating application system, using a maximum of 15.0 gallons per hour of resin, exhausting at one (1) stack, identified as EP009;
(c) one (1) closed fiberglass marble panel manufacturing process, consisting of closed resin blenders (ID No. 005), utilizing a flowcoating application system, using a maximum of 15.0 gallons per hour of resin, exhausting at one (1) stack, identified as EP005.
(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

Emission Limitations and Standards [326 IAC 2-8-4(1)]

D.1.1 Volatile Organic Compounds (VOCs)[326 IAC 8-1-6][326 IAC 2-8-4][40 CFR 52.21][326 IAC 2-2]
Use of resins and gel coats in the one (1) gel coat spray booth (ID No. 007), the open resin blenders (ID No. 009), and the closed resin blenders (ID No. 005) shall be limited such that the potential to emit (PTE) volatile organic compounds (VOC) shall be less than 25 tons per twelve (12) consecutive month period, where compliance is determined at the end of each month. Compliance with this limit for resins and gel coats shall be determined based upon the following criteria:

(a) Monthly usage by weight, weight percent monomer content that is VOC, method of application, and other emission reduction techniques for each gel coat and resin shall be recorded. VOC emissions shall be calculated by multiplying the usage of each gel coat and resin by the emission factor that is appropriate for the monomer content, method of application, and other emission reduction techniques for each gel coat and resin, and summing the emissions for all gel coats and resins. Emission factors shall be obtained from the reference approved by IDEM, OAQ.

(b) Until such time that new emissions information is made available by U.S. EPA in its AP-42 document or other U.S. EPA-approved form, emission factors shall be taken from the following reference approved by IDEM, OAQ: “Unified Emission Factors for Open Molding of Composites,” Composites Fabricators Association, July 23, 2001, with the exception of the emission factors for controlled spray application. For operations not addressed by this reference, emission factors shall be taken from U.S. EPA’s AP-42 document. For the purposes of these emission calculations, monomer in resins and gel coats that is not styrene or methyl methacrylate shall be considered as styrene on an equivalent weight basis.

Therefore, the best available control technology (BACT) requirement in 326 IAC 8-1-6 (New Facilities: General Reduction Requirements) does not apply. This limit also renders 326 IAC 2-7 (Part 70 Permit Program) and 326 IAC 2-2 (Prevention of Significant Deterioration) not applicable.

D.1.2 Hazardous Air Pollutants (HAPs) [326 IAC 2-8-4]

Use of resins and gel coats in the one (1) gel coat spray booth (ID No. 007), the open resin blenders (ID No. 009), and the closed resin blenders (ID No. 005) shall be limited such that the potential to emit (PTE) any single HAP and total HAPs shall be less than 10 tons per twelve (12) consecutive month period and 25 tons per twelve (12) consecutive month period, respectively, where compliance is determined at the end of each month. Compliance with this limit for resins and gel coats shall be determined based upon the following criteria:

(a) Monthly usage by weight, weight percent monomer content that is HAP, method of application, and other emission reduction techniques for each gel coat and resin shall be recorded. HAP emissions shall be calculated by multiplying the usage of each gel coat and resin by the emission factor that is appropriate for the monomer content, method of application, and other emission reduction techniques for each gel coat and resin, and summing the emissions for all gel coats and resins. Emission factors shall be obtained from the reference approved by IDEM, OAQ.

(b) Until such time that new emissions information is made available by U.S. EPA in its AP-42 document or other U.S. EPA-approved form, emission factors shall be taken from the following reference approved by IDEM, OAQ: "Unified Emission Factors for Open Molding of Composites," Composites Fabricators Association, July 23, 2001, with the exception of the emission factors for controlled spray application. For operations not addressed by this reference, emission factors shall be taken from U.S. EPA's AP-42 document. For the purposes of these emission calculations, monomer in resins and gel coats that is not styrene or methyl methacrylate shall be considered as styrene on an equivalent weight basis.

Therefore, the requirements of 326 IAC 2-7 (Part 70 Permit Program) and 326 IAC 2-2 (Prevention of Significant Deterioration) do not apply

D.1.3 Particulate Matter (PM) [40 CFR 52 Subpart P]

Pursuant to 40 CFR 52 Subpart P, the PM from the one (1) gel coat spray booth (ID No.007) shall not exceed the pound per hour emission rate established as E in the following formula:

Interpolation of the data for the process weight rate up to sixty thousand (60,000) pounds per hour shall be accomplished by use of the equation:

$E = 4.10\ P^{0.67}$ where E = rate of emission in pounds per hour; and
P = process weight rate in tons per hour

D.1.4 Particulate [326 IAC 6-3-2(d)]

Pursuant to 326 IAC 6-3-2(d), particulate from the one (1) gel coat spray booth (ID No. 007) shall be controlled by dry particulate filters and the Permittee shall operate the dry filters in accordance with manufacturer's specifications.

D.1.5 Preventive Maintenance Plan [326 IAC 2-8-4(9)]

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for this facility and any control devices.

Compliance Determination Requirements

D.1.6 Volatile Organic Compounds (VOC)and Hazardous Air Pollutants(HAPs)[326 IAC 8-1-2] [326 IAC 8-1-4]

Compliance with the VOC and HAP content and usage limitations contained in Conditions D.1.1 and D.1.2 shall be determined pursuant to 326 IAC 8-1-4(a)(3) and 326 IAC 8-1-2(a) by preparing or obtaining from the manufacturer the copies of the "as supplied" and "as applied" VOC and HAP data sheets. IDEM, OAQ, reserves the authority to determine compliance using Method 24 in conjunction with the analytical procedures specified in 326 IAC 8-1-4.

Compliance Monitoring Requirements [326 IAC 2-8-4] [326 IAC 2-8-5(a)(1)]

D.1.7 Monitoring

(a) The one (1) gel coat spray booth (ID Nos. 007) shall be controlled by a dry particulate filter, and the Permittee shall operate the control device in accordance with manufacturer's specifications.

(b) Daily inspections shall be performed to verify the placement, integrity and particle loading of the filters. To monitor the performance of the dry filters, weekly observations shall be made of the overspray from the gel coat spray booth stack (EP007) while the booth is in operation. The Compliance Response Plan shall be followed whenever a condition exists which should result in a response step. Failure to take response steps in accordance with Section C - Compliance Monitoring Plan - Preparation, Implementation, Records, and Reports, shall be considered a violation of this permit.

(c) Monthly inspections shall be performed of the particulate emissions from the stack and the presence of overspray on the rooftops and the nearby ground. The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when a noticeable change in overspray emission, or evidence of overspray emission is observed. The Compliance Response Plan shall be followed whenever a condition exists which should result in a response step. Failure to take response steps in accordance with Section C - Compliance Monitoring Plan - Preparation, Implementation, Records, and Reports, shall be considered a violation of this permit.

(d) Additional inspections and preventive measures shall be performed as prescribed in the Preventive Maintenance Plan..

Record Keeping and Reporting Requirements [326 IAC 2-8-4(3)] [326 IAC 2-8-16]

D.1.8 Record Keeping Requirements

(a) To document compliance with Conditions D.1.1 and D.1.2, the Permittee shall maintain records in accordance with (1) through (6) below. Records maintained for (1) through (6) shall be taken monthly and shall be complete and sufficient to establish compliance with the VOC and HAP usage limits and/or the VOC emission limits established in Condition D.1.1 and D.1.2.

(1) The VOC and HAP content of each coating material and solvent used.

(2) The amount of coating material and solvent less water used on daily basis.

(1) Records shall include purchase orders, invoices, and material safety data sheets (MSDS) necessary to verify the type and amount used.

(2) Solvent usage records shall differentiate between those added to coatings and those used as cleanup solvents.

(3) The volume weighted VOC content and HAP content of the coatings used for each month;

(4) The cleanup solvent usage for each month;

(5) The total VOC, single HAP and total HAP usage for each month; and

(6) The weight of VOCs and HAPs emitted for each compliance period.

(b) To document compliance with Condition D.1.7, the Permittee shall maintain a log of daily and monthly inspections, and those additional inspections prescribed by the Preventive Maintenance Plan.

(c) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

D.1.9 Reporting Requirements

A quarterly summary of the information to document compliance with Conditions D.1.1 and D.1.2 shall be submitted to the address listed in Section C - General Reporting Requirements, of this permit, using the reporting forms located at the end of this permit, or their equivalent, within thirty (30) days after the end of the quarter being reported. The report submitted by the Permittee does require the certification by the “authorized individual” as defined by 326 IAC 2-1.1-1(1).

SECTION D.2 FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-8-4(10)]:
(d) one (1) fiberglass marble panel sanding and cutting booth (ID No. 006), utilizing one (1) drum sander, with Toritt cartridge dust collectors for particulate matter control, exhausting through one (1) stack, identified as EP006; and
(e) one (1) fiberglass marble fixture grinding booth (ID No. 008), utilizing hand grinders, with Toritt cartridge dust collectors for particulate matter control, exhausting through one (1) stack, identified as EP008, which vents internally.
(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

Emission Limitations and Standards [326 IAC 2-8-4(1)]

D.2.1 Particulate [326 IAC 6-3-2][326 IAC 2-2][40 CFR 52.21]

Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), the allowable particulate emission rate from the sanding and cutting booth (ID No. 006) shall not exceed 1.39 pounds per hour when operating at a process weight rate of 400 pounds per hour and the allowable particulate emission rate from the grinding booth (ID No. 008) shall not exceed 2.07 pounds per hour when operating at a process weight rate of 720 pounds per hour.

The pounds per hour limitation was calculated with the following equation:

Interpolation of the data for the process weight rate up to 60,000 pounds per hour shall be accomplished by use of the equation:

$E = 4.10\ P^{0.67}$ where E = rate of emission in pounds per hour; and P = process weight rate in tons per hour

Based on 8,760 hours of operation per 12 consecutive month period, this is equivalent to limiting PM emissions from the sanding, grinding and cutting operations to 15.18 tons per year for a source-wide total potential to emit of less than 250 tons per year. Therefore, compliance with this limit shall also render 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)), 40 CFR 52.21 not applicable.

D.2.2 Particulate Matter 10 Microns (PM10) [326 IAC 2-8-4][326 IAC 2-2][40 CFR 52.21]

Pursuant to 326 IAC 2-8-4, particulate matter 10 microns emissions from the sanding and cutting booth (ID No 006) shall not exceed 1.39 pounds per hour and from the grinding booth (ID No. 008) shall not exceed 2.07 pounds per hour, including both filterable and condensible fractions. Based on 8,760 hours of operation per 12 consecutive month period, this limits PM-10 emissions from the sanding, grinding and cutting operations to 15.18 tons per year for a source-wide total potential to emit of less than 100 tons per year. Therefore, compliance with this limit will satisfy 326 IAC 2-8-4, and will render the Part 70 rules (326 IAC 2-7) not applicable. This limit shall also render 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)), 40 CFR 52.21 not applicable.

D.2.3 Preventive Maintenance Plan [326 IAC 2-8-4(9)]

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for this facility and its control device.

Compliance Monitoring Requirements [326 IAC 2-8-4] [326 IAC 2-8-5(a)(1)]

D.2.4 Particulate Control

In order to comply with Conditions D.2.1 and D.2.2, the Toritt cartridge dust collectors for particulate control shall be in operation and control emissions from the sanding and cutting booth (ID No. 006) and grinding booth (ID No. 008) at all times that the sanding and cutting booth (ID No. 006) and grinding booth (ID No. 008) are in operation.

D.2.5 Visible Emissions Notations

(a) Visible emission notations of the fiberglass marble panel sanding and cutting booth stack and the fiberglass marble fixture grinding booth stack exhaust shall be performed once per shift during normal daylight operations when exhausting to the atmosphere. A trained employee shall record whether emissions are normal or abnormal.

(b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.

(c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.

(d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.

(e) The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when an abnormal emission is observed. Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a violation of this permit.

D.2.6 Parametric Monitoring

The Permittee shall record the total static pressure drop across each of the dust collectors used in conjunction with the sanding and cutting booth (ID No. 006) and the grinding booth (ID No. 008), at least once per shift when the sanding and cutting booth (ID No. 006) and the grinding booth (ID No. 008) are in operation when venting to the atmosphere. When for any one reading, the pressure drop across any of the dust collectors is outside the normal range of 1.0 and 3.0 inches of water or a range established during the latest stack test, the Permittee shall take reasonable response steps in accordance with Section C - Compliance Response Plan-Failure to Take Response Steps. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a violation of this permit.

The instrument used for determining the pressure shall comply with Section C - Pressure Gauge and Other Instrument Specifications, of this permit, shall be subject to approval by IDEM, OAQ, and shall be calibrated at least once every six (6) months.

Record Keeping and Reporting Requirement [326 IAC 2-8-4(3)] [326 IAC 2-8-16]

D.2.7 Record Keeping Requirements

(a) To document compliance with Condition D.2.5, the Permittee shall maintain records of the once per shift visible emission notations of the fiberglass marble panel sanding and cutting booth stack and the fiberglass marble fixture grinding booth stack exhaust.

(b) To document compliance with Condition D.2.6, the Permittee shall maintain the following:

(1) Weekly records of the total static pressure drop during normal operation when venting to the atmosphere.

(2) Documentation of the dates vents are redirected.

(c) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

SECTION D.3 FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-8-4(10)]:
(g) one (1) No. 2 distillate fuel oil fired boiler (ID No. 004), rated at 2.05 million (MM) British thermal units (Btu) per hour, exhausting through one (1) stack, identified as EP004.
(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

Emission Limitations and Standards [326 IAC 2-8-4(1)]

D.3.1 Particulate [326 IAC 6-2]

Pursuant to 326 IAC 6-2-2 (Particulate Matter Emission Limitations for Sources of Indirect Heating), the PM emissions from the 2.05 MMBtu per hour heat input boiler shall be limited to 0.6 pounds per MMBtu heat input.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY

FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP) CERTIFICATION

Source Name: Century Marble Company, Inc.
Source Address: 3525 State Road 32 West, Westfield, Indiana 46074
Mailing Address: 3525 State Road 32 West, Westfield, Indiana 46074
FESOP No.: 057-15198-00045

This certification shall be included when submitting monitoring, testing reports/results or other documents as required by this permit.

Please check what document is being certified:

9 Annual Compliance Certification Letter

9 Test Result (specify) _____

9 Report (specify) _____

9 Notification (specify) _____

9 Affidavit (specify) _____

9 Other (specify) _____

I certify that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.

Signature:

Printed Name:

Title/Position:

Date:

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY

COMPLIANCE BRANCH
P.O. Box 6015
100 North Senate Avenue
Indianapolis, Indiana 46206-6015
Phone: 317-233-5674
Fax: 317-233-5967

FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP)
EMERGENCY OCCURRENCE REPORT

Source Name: Century Marble Company, Inc.
Source Address: 3525 State Road 32 West, Westfield, Indiana 46074
Mailing Address: 3525 State Road 32 West, Westfield, Indiana 46074
FESOP No.: 057-15198-00045

This form consists of 2 pages **Page 1 of 2**

9 This is an emergency as defined in 326 IAC 2-7-1(12)

- The Permittee must notify the Office of Air Quality (OAQ), within four (**4**) business hours (1-800-451-6027 or 317-233-5674, ask for Compliance Section); and
- The Permittee must submit notice in writing or by facsimile within two (**2**) working days (Facsimile Number: 317-233-5967), and follow the other requirements of 326 IAC 2-7-16

If any of the following are not applicable, mark N/A

Facility/Equipment/Operation:
Control Equipment:
Permit Condition or Operation Limitation in Permit:
Description of the Emergency:
Describe the cause of the Emergency:

If any of the following are not applicable, mark N/A **Page 2 of 2**

Date/Time Emergency started:
Date/Time Emergency was corrected:
Was the facility being properly operated at the time of the emergency? Y N Describe:
Type of Pollutants Emitted: TSP, PM-10, SO_2, VOC, NO_X, CO, Pb, other:
Estimated amount of pollutant(s) emitted during emergency:
Describe the steps taken to mitigate the problem:
Describe the corrective actions/response steps taken:
Describe the measures taken to minimize emissions:
If applicable, describe the reasons why continued operation of the facilities are necessary to prevent imminent injury to persons, severe damage to equipment, substantial loss of capital investment, or loss of product or raw materials of substantial economic value:

Form Completed by: _____
Title / Position: _____
Date: _____
Phone: _____

A certification is not required for this report.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE DATA SECTION

FESOP Quarterly Report

Source Name: Century Marble Company, Inc.
Source Address: 3525 State Road 32 West, Westfield, Indiana 46074
Mailing Address: 3525 State Road 32 West, Westfield, Indiana 46074
FESOP No.: 057-15198-00045
Facility: one (1) gel coat spray booth (ID No. 007), open resin blenders (ID No. 009), and closed resin blenders (ID No. 005)
Parameter: VOC
Limit: Use of resins and gel coats in the one (1) gel coat spray booth (ID No. 007), the open resin blenders (ID No. 009), and the closed resin blenders (ID No. 005) shall be limited such that the potential to emit (PTE) volatile organic compounds (VOC) shall be less than 25 tons per twelve (12) consecutive month period, where compliance is determined at the end of each month.

YEAR: _____

Month	Column 1	Column 2	Column 1 + Column 2
	VOC Usage This Month	VOC Usage Previous 11 Months	VOC Usage 12 Month Total
Month 1			
Month 2			
Month 3			

9 No deviation occurred in this quarter.

9 Deviation/s occurred in this quarter.
Deviation has been reported on: _____

Submitted by: _____
Title / Position: _____
Signature: _____
Date: _____
Phone: _____

Attach a signed certification to complete this report.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE DATA SECTION

FESOP Quarterly Report

Source Name: Century Marble Company, Inc.
Source Address: 3525 State Road 32 West, Westfield, Indiana 46074
Mailing Address: 3525 State Road 32 West, Westfield, Indiana 46074
FESOP No.: 057-15198-00045
Facility: one (1) gel coat spray booth (ID No. 007), open resin blenders (ID No. 009), and closed resin blenders (ID No. 005)
Parameter: Single HAP and Total HAPs
Limit: Use of resins and gel coats in the one (1) gel coat spray booth (ID No. 007), the open resin blenders (ID No. 009), and the closed resin blenders (ID No. 005) shall be limited such that the potential to emit (PTE) any single HAP and total HAPs shall be less than 10 tons per twelve (12) consecutive month period and 25 tons per twelve (12) consecutive month period, respectively, where compliance is determined at the end of each month.

YEAR: _____

Month	Column 1	Column 2	Column 1 + Column 2	Column 4	Column 5	Column 4 + Column 5
	Single HAP This Month	Single HAP Previous 11 Months	Single HAP 12 Month Total	Combined HAPs This Month	Combined HAPs Previous 11 Months	Combined HAPs 12 Month Total
Month 1						
Month 2						
Month 3						

9 No deviation occurred in this quarter.

9 Deviation/s occurred in this quarter.
Deviation has been reported on: _____

Submitted by: _____
Title / Position: _____
Signature: _____
Date: _____
Phone: _____

Attach a signed certification to complete this report.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE DATA SECTION

FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP)
QUARTERLY DEVIATION AND COMPLIANCE MONITORING REPORT

Source Name: Century Marble Company, Inc.
Source Address: 3525 State Road 32 West, Westfield, Indiana 46074
Mailing Address: 3525 State Road 32 West, Westfield, Indiana 46074
FESOP No.: 057-15198-00045

Months: _____ to _____ Year: _____

This report shall be submitted quarterly based on a calendar year. Any deviation from the requirements, the date(s) of each deviation, the probable cause of the deviation, and the response steps taken must be reported. Deviations that are required to be reported by an applicable requirement shall be reported according to the schedule stated in the applicable requirement and do not need to be included in this report. Additional pages may be attached if necessary. If no deviations occurred, please specify in the box marked "No deviations occurred this reporting period".

9 NO DEVIATIONS OCCURRED THIS REPORTING PERIOD.

9 THE FOLLOWING DEVIATIONS OCCURRED THIS REPORTING PERIOD

Permit Requirement (specify permit condition #)	
Date of Deviation:	**Duration of Deviation:**
Number of Deviations:	
Probable Cause of Deviation:	
Response Steps Taken:	

Permit Requirement (specify permit condition #)	
Date of Deviation:	**Duration of Deviation:**
Number of Deviations:	
Probable Cause of Deviation:	
Response Steps Taken:	

Permit Requirement (specify permit condition #)	
Date of Deviation:	**Duration of Deviation:**
Number of Deviations:	
Probable Cause of Deviation:	
Response Steps Taken:	
Permit Requirement (specify permit condition #)	
Date of Deviation:	**Duration of Deviation:**
Number of Deviations:	
Probable Cause of Deviation:	
Response Steps Taken:	
Permit Requirement (specify permit condition #)	
Date of Deviation:	**Duration of Deviation:**
Number of Deviations:	
Probable Cause of Deviation:	
Response Steps Taken:	

Form Completed By: ______________________________

Title/Position: ______________________________

Date: ______________________________

Phone: ______________________________

Attach a signed certification to complete this report.

Indiana Department of Environmental Management
Office of Air Quality

Addendum to the
Technical Support Document (TSD) for a
Federally Enforceable State Operating Permit (FESOP) Renewal

Source Name:	**Century Marble Company, Inc.**
Source Location:	**3525 State Road 32 West, Westfield, Indiana 46074**
County:	**Hamilton**
SIC Code:	**3088**
Operation Permit No.:	**F057-15198-00045**
Permit Reviewer:	**Linda Quigley/EVP**

On November 22, 2002, the Office of Air Quality (OAQ) had a notice published in the Topics Newspapers Inks, Noblesville, Indiana, stating that Century Marble Company, Inc. had applied for a Federally Enforceable State Operating Permit (FESOP) Renewal for the operation of a stationary fiberglass marble fixtures and flat marble surfaces manufacturing source. The notice also stated that OAQ proposed to issue a Federally Enforceable State Operating Permit for this operation and provided information on how the public could review the proposed FESOP and other documentation. Finally, the notice informed interested parties that there was a period of thirty (30) days to provide comments on whether or not this FESOP should be issued as proposed.

Upon further review, the OAQ has decided to make the following changes to the FESOP Renewal. Bolded language has been added and the language with a line through it has been deleted.

(1) The one (1) gel coat repair spray booth, identified as Booth #2 (ID No. 003), exhausting at one (1) stack, identified as EP003, was never constructed at this source. Therefore, all descriptive information, permit conditions and associated emissions relating to this unit have been removed from this FESOP renewal. The following changes have been made:

Emission calculations have been revised. See Addendum to Appendix A (four (4) revised pages).

The following change has been made to the Potential to Emit After Issuance Table:

Potential to Emit After Issuance

The source, issued a FESOP on October 14, 1997, has opted to remain a FESOP source, rather than apply for a Part 70 Operating Permit. The table below summarizes the potential to emit, reflecting all limits, of the emission units. Any control equipment is considered enforceable only after issuance of this Federally Enforceable State Operating Permit and only to the extent that the effect of the control equipment is made practically enforceable in the permit. Since the source has not constructed any new emission units, the source's potential to emit is based on the emission units included in the original FESOP (F057-8653-00045; issued on October 14, 1997) **with the exception of the one (1) gel coat spray booth, identified as Booth #2 (ID No. 003), which was never constructed**.

	Potential to Emit After Issuance (tons/year)							
Process/emission unit	PM	PM-10	SO_2	VOC	CO	NO_X	Single HAP	Total HAPs
Fiberglass Processes	~~4.87~~(1) **2.98**	~~4.87~~(1) **2.98**	0.00	< 25(2)	0.00	0.00	< 10(2)	< 25(2)
Sanding and Grinding	15.18(3)	15.18(3)	0.00	0.00	0.00	0.00	0.00	0.00
Combustion	0.10	0.10	4.60	0.00	0.30	1.30	negl.	negl.
Total PTE After Issuance	20.15	20.15	4.60	< 25	0.30	1.30	< 10	< 25

Notes:

(1) Reflects the use of particulate matter control devices which shall be operated at all times the processes are in operation. Assumes all PM equal to PM_{10}.

(2) Reflects the usage limitation required to limit the potential to emit of VOC to less than 25 tons per year, single HAP to less than 10 tons per year, and total HAPs to less than 25 tons per year, such that the requirements of 326 IAC 2-7 and 326 IAC 8-1-6 shall not apply.

(3) Allowable PM emissions pursuant to 326 IAC 6-3-2. Assumes all PM equal to PM_{10}.

The following change has been made to Section A.2:

A.2 Emission Units and Pollution Control Equipment Summary [326 IAC 2-8-3(c)(3)]

This stationary source consists of the following emission units and pollution control devices:

(a) one (1) gel coat spray booth, identified as Booth #1 (ID No. 007), utilizing an air atomized application system, coating marble fixtures using a maximum of 14.36 gallons per hour of gel coat, with dry filters for overspray control, and exhausting at one (1) stack, identified as EP007;

~~(b) one (1) gel coat repair spray booth, identified as Booth #2 (ID No. 003), utilizing an air atomized application system, coating marble fixtures using a maximum of 9.10 gallons per hour of gel coat, with dry filters for overspray control, and exhausting at one (1) stack, identified as EP003;~~

Subsequent items on the equipment summary have been re-lettered.

The following changes have been made to Section D.1:

SECTION D.1 FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-8-4(10)]:

(a) one (1) gel coat spray booth, identified as Booth #1 (ID No. 007), utilizing an air atomized application system, coating marble fixtures using a maximum of 14.36 gallons per hour of gel coat, with dry filters for overspray control, and exhausting at one (1) stack, identified as EP007;

~~(b) one (1) gel coat repair spray booth, identified as Booth #2 (ID No. 003), utilizing an air atomized application system, coating marble fixtures using a maximum of 9.10 gallons per hour of gel coat, with dry filters for overspray control, and exhausting at one (1) stack, identified as EP003;~~

~~(c)~~**(b)** one (1) open fiberglass marble fixture manufacturing process, consisting of open resin blenders (ID No. 009), utilizing a flowcoating application system, using a maximum of 15.0 gallons per hour of resin, exhausting at one (1) stack, identified as EP009;

~~(d)~~**(c)** one (1) closed fiberglass marble panel manufacturing process, consisting of closed resin blenders (ID No. 005), utilizing a flowcoating application system, using a maximum of 15.0 gallons per hour of resin, exhausting at one (1) stack, identified as EP005;
(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

Emission Limitations and Standards [326 IAC 2-8-4(1)]

D.1.1 Volatile Organic Compounds (VOCs)[326 IAC 8-1-6][326 IAC 2-8-4][40 CFR 52.21][326 IAC 2-2]
Use of resins and gel coats in the ~~two (2)~~ **one (1)** gel coat spray booth~~s~~ (ID No~~s~~. 007 ~~and 003~~), the open resin blenders (ID No. 009), and the closed resin blenders (ID No. 005) shall be limited such that the potential to emit (PTE) volatile organic compounds (VOC) shall be less than 25 tons per twelve (12) consecutive month period, where compliance is determined at the end of each month. Compliance with this limit for resins and gel coats shall be determined based upon the following criteria:

D.1.2 Hazardous Air Pollutants (HAPs) [326 IAC 2-8-4]
Use of resins and gel coats in the~~ two (2)~~ **one (1)** gel coat spray booth~~s~~ (ID No~~s~~. 007 ~~and 003~~), the open resin blenders (ID No. 009), and the closed resin blenders (ID No. 005) shall be limited such that the potential to emit (PTE) any single HAP and total HAPs shall be less than 10 tons per twelve (12) consecutive month period and 25 tons per twelve (12) consecutive month period, respectively, where compliance is determined at the end of each month. Compliance with this limit for resins and gel coats shall be determined based upon the following criteria:

D.1.3 Particulate Matter (PM) [40 CFR 52 Subpart P]
Pursuant to 40 CFR 52 Subpart P, the PM from the ~~two (2)~~ **one (1)** gel coat spray booth~~s~~ (ID No~~s~~. ~~003 and~~ 007) shall not exceed the pound per hour emission rate established as E in the following formula:

Interpolation of the data for the process weight rate up to sixty thousand (60,000) pounds per hour shall be accomplished by use of the equation:

$E = 4.10\ P^{0.67}$ where E = rate of emission in pounds per hour; and
P = process weight rate in tons per hour

D.1.4 Particulate [326 IAC 6-3-2(d)]
Pursuant to 326 IAC 6-3-2(d), particulate from the ~~two (2)~~ **one (1)** gel coat spray booth~~s~~ (ID No~~s~~. ~~003 and~~ 007) shall be controlled by dry particulate filters and the Permittee shall operate the dry filters in accordance with manufacturer's specifications.

Compliance Monitoring Requirements [326 IAC 2-8-4] [326 IAC 2-8-5(a)(1)]

D.1.7 Monitoring
(a) The ~~two (2)~~ **one (1)** gel coat spray booth~~s~~ (ID No~~s~~. 007 ~~and 003~~) shall be controlled by a dry particulate filter, and the Permittee shall operate the control device in accordance with manufacturer's specifications.

(b) Daily inspections shall be performed to verify the placement, integrity and particle loading of the filters. To monitor the performance of the dry filters, weekly observations shall be made of the overspray from the gel coat spray booth stack~~s~~ (EP007 ~~and EP003~~) while ~~one or more of~~ the booth~~s~~ ~~are~~ **is** in operation. The Compliance Response Plan shall be followed whenever a condition exists which should result in a response step. Failure to take response steps in accordance with Section C - Compliance Monitoring Plan - Preparation, Implementation, Records, and Reports, shall be considered a violation of this permit.

(c) Monthly inspections shall be performed of the particulate emissions from the stack and the presence of overspray on the rooftops and the nearby ground. The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when a noticeable change in overspray emission, or evidence of overspray emission is observed. The Compliance Response Plan shall be followed whenever a condition exists which should result in a response step. Failure to take response steps in accordance with Section C - Compliance Monitoring Plan - Preparation, Implementation, Records, and Reports, shall be considered a violation of this permit.

(d) Additional inspections and preventive measures shall be performed as prescribed in the Preventive Maintenance Plan.

Subsequent reporting forms have been revised.

(2) The one (1) auxiliary electric pump for fire protection listed in Section A.3, Insignificant Activities, does not have any emissions associated with it and has therefore been removed.

A.3 Insignificant Activities [326 IAC 2-7-1(21)] [326 IAC 2-8-3(c)(3)(I)]

This stationary source also includes the following insignificant activities, as defined in 326 IAC 2-7-1(21):

(a) two (2) polyester resin storage tanks (ID Nos. 00291 and 00146), each with a storage capacity of 5,880 gallons, each exhausting through one (1) stack, identified as EP001 and EP002, respectively; **and**

(b) one (1) fiberglass marble fixture buffing booth~~; and~~**.**

~~(c) one (1) auxiliary electric pump for fire protection.~~

(3) The fiberglass marble panel sanding and cutting booth (ID No. 006) and the fiberglass marble fixture grinding booth (ID No. 008) utilize Toritt cartridge dust collectors and not baghouses for particulate control. Therefore, Conditions D.2.8 (Baghouse Inspections) and D.2.9 (Broken or Failed Bag Detection) have been removed. Condition D.2.10 (Record Keeping Requirements) has been revised accordingly. Section A.2 and the Facility Description in Section D.2 have been revised to accurately describe the control equipment. In addition, the fiberglass marble fixture grinding booth (ID No. 008) exhausts through the dust collectors into the building and does not have an external stack. Therefore, Condition D.2.4 (Testing Requirements) has been removed and the descriptive information has been revised to show that the unit vents indoors.

A.2 Emission Units and Pollution Control Equipment Summary [326 IAC 2-8-3(c)(3)]

This stationary source consists of the following emission units and pollution control devices:

~~(c)~~**(d)** one (1) fiberglass marble panel sanding and cutting booth (ID No. 006), utilizing one (1) drum sander, with ~~a~~ **Toritt** cartridge **dust collectors** ~~baghouse~~ for particulate matter control, exhausting through one (1) stack, identified as EP006;

~~(f)~~**(e)** one (1) fiberglass marble fixture grinding booth (ID No. 008), utilizing hand grinders, with ~~a~~ **Toritt** cartridge **dust collectors** ~~baghouse~~ for particulate matter control, exhausting through one (1) stack, identified as EP008 **which vents internally**; and

SECTION D.2 FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-8-4(10)]:
~~(e)~~**(d)** one (1) fiberglass marble panel sanding and cutting booth (ID No. 006), utilizing one (1) drum sander, with ~~a~~ **Toritt** cartridge **dust collectors** ~~baghouse~~ for particulate matter control, exhausting through one (1) stack, identified as EP006;
~~(f)~~**(e)** one (1) fiberglass marble fixture grinding booth (ID No. 008), utilizing hand grinders, with ~~a~~ **Toritt** cartridge **dust collectors** ~~baghouse~~ for particulate matter control, exhausting through one (1) stack, identified as EP008 **which vents internally**.
(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

Compliance Determination Requirements

~~D.2.4 Testing Requirements [326 IAC 2-8-5(a)(1), (4)] [326 IAC 2-1.1-11~~
~~No later than 90 days after issuance of this FESOP, in order to demonstrate compliance with Conditions D.2.1 and D.2.2, the Permittee shall perform PM and PM-10 testing for the fiberglass marble fixture grinding booth stack (ID No. EP008) utilizing methods as approved by the Commissioner. This test shall be repeated at least once every five (5) years from the date of this valid compliance demonstration. PM-10 includes filterable and condensible PM-10. Testing shall be conducted in accordance with Section C- Performance Testing.~~

Compliance Monitoring Requirements [326 IAC 2-8-4] [326 IAC 2-8-5(a)(1)]

D.2.~~5~~**4** Particulate Control
In order to comply with Conditions D.2.1 and D.2.2, the ~~baghouses~~ **Toritt cartridge dust collectors** for particulate control shall be in operation and control emissions from the sanding and cutting booth (ID No. 006) and grinding booth (ID No. 008) at all times that the sanding and cutting booth (ID No. 006) and grinding booth (ID No. 008) are in operation.

D.2.~~6~~**5** Visible Emissions Notations
(a) Visible emission notations of the fiberglass marble panel sanding and cutting booth stack and the fiberglass marble fixture grinding booth stack exhaust shall be performed once per shift during normal daylight operations when exhausting to the atmosphere. A trained employee shall record whether emissions are normal or abnormal.

(b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.

(c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.

(d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.

(e) The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when an abnormal emission is observed. Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a violation of this permit.

D.2.~~7~~**6** Parametric Monitoring

The Permittee shall record the total static pressure drop across each of the ~~two baghouses~~ **dust collectors** used in conjunction with the sanding and cutting booth (ID No. 006) and the grinding booth (ID No. 008), at least once per shift when the sanding and cutting booth (ID No. 006) and the grinding booth (ID No. 008) are in operation when venting to the atmosphere. When for any one reading, the pressure drop across ~~either~~ **any** of the ~~baghouses~~ **dust collectors** is outside the normal range of 1.0 and 3.0 inches of water or a range established during the latest stack test, the Permittee shall take reasonable response steps in accordance with Section C- Compliance Response Plan - Failure to Take Response Steps. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a violation of this permit.

The instrument used for determining the pressure shall comply with Section C - Pressure Gauge and Other Instrument Specifications, of this permit, shall be subject to approval by IDEM, OAQ, and shall be calibrated at least once every six (6) months.

~~D.2.8 Baghouse Inspections~~

~~An inspection shall be performed in the last month of each calendar quarter of all bags controlling the sanding and cutting booth (ID No. 006) and the grinding booth (ID No. 008) when venting to the atmosphere. A baghouse inspection shall be performed within three months of redirecting vents to the atmosphere and every three months thereafter. Inspections are optional when venting indoors. All defective bags shall be replaced.~~

~~D.2.9 Broken or Failed Bag Detection~~

~~In the event that bag failure has been observed:~~

~~(a) For multi-compartment units, the affected compartments will be shut down immediately until the failed units have been repaired or replaced. Operations may continue only if there are no visible emissions or if the event qualifies as an emergency and the Permittee satisfies the emergency provisions of this permit (Section B- Emergency Provisions). Within eight (8) business hours of the determination of failure, response steps according to the timetable described in the Compliance Response Plan shall be initiated. For any failure with corresponding response steps and timetable not described in the Compliance Response Plan, response steps shall be devised within eight (8) business hours of discovery of the failure and shall include a timetable for completion. Failure to take response steps in accordance with Section C - Compliance Response Plan -Preparation, Implementation, Records, and Reports, shall be considered a violation of this permit.~~

~~(b) For single compartment baghouses, if failure is indicated by a significant drop in the baghouse's pressure readings with abnormal visible emissions or the failure is indicated by an opacity violation, or if bag failure is determined by other means, such as gas temperatures, flow rates, air infiltration, leaks, dust traces or triboflows, then failed units and the associated process will be shut down immediately until the failed units have been repaired or replaced. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).~~

Record Keeping and Reporting Requirement [326 IAC 2-8-4(3)] [326 IAC 2-8-16]

D.2.~~10~~**7** Record Keeping Requirements

(a) To document compliance with Condition ~~D.2.6~~ **D.2.5**, the Permittee shall maintain records of the once per shift visible emission notations of the fiberglass marble panel sanding and cutting booth stack and the fiberglass marble fixture grinding booth stack exhaust.

(b) To document compliance with Condition ~~D.2.7~~ **D.2.6**, the Permittee shall maintain the following:

(1) Weekly records of the total static pressure drop during normal operation when venting to the atmosphere.

(2) Documentation of the dates vents are redirected.

~~(c) To document compliance with Condition D.2.8, the Permittee shall maintain records of the results of the inspections required under Condition D.2.8 and the dates the vents are redirected.~~

~~(d)~~**(c)** All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

Indiana Department of Environmental Management
Office of Air Quality

Technical Support Document (TSD) for a Federally Enforceable State Operating Permit (FESOP) Renewal

Source Background and Description

Source Name:	**Century Marble Company, Inc.**
Source Location:	**3525 State Road 32 West, Westfield, Indiana 46074**
County:	**Hamilton**
SIC Code:	**3088**
Operation Permit No.:	**F057-15198 - 00045**
Permit Reviewer:	**Linda Quigley/EVP**

The Office of Air Quality (OAQ) has reviewed a FESOP renewal application from Century Marble Company, Inc. relating to the operation of a stationary fiberglass marble fixtures and flat marble surfaces manufacturing source. Century Marble Company, Inc. was issued FESOP F057-8653-00045 on October 14, 1997.

Permitted Emission Units and Pollution Control Equipment

The source consists of the following permitted emission units and pollution control devices:

(a) one (1) gel coat spray booth, identified as Booth #1 (ID No. 007), utilizing an air atomized application system, coating marble fixtures using a maximum of 14.36 gallons per hour of gel coat, with dry filters for overspray control, and exhausting at one (1) stack, identified as EP007;

(b) one (1) gel coat repair spray booth, identified as Booth #2 (ID No. 003), utilizing an air atomized application system, coating marble fixtures using a maximum of 9.10 gallons per hour of gel coat, with dry filters for overspray control, and exhausting at one (1) stack, identified as EP003;

(c) one (1) open fiberglass marble fixture manufacturing process, consisting of open resin blenders (ID No. 009), utilizing a flowcoating application system, using a maximum of 15.0 gallons per hour of resin, exhausting at one (1) stack, identified as EP009;

(d) one (1) closed fiberglass marble panel manufacturing process, consisting of closed resin blenders (ID No. 005), utilizing a flowcoating application system, using a maximum of 15.0 gallons per hour of resin, exhausting at one (1) stack, identified as EP005;

(e) one (1) fiberglass marble panel sanding and cutting booth (ID No. 006), utilizing one (1) drum sander, with a cartridge baghouse for particulate matter control, exhausting through one (1) stack, identified as EP006;

(f) one (1) fiberglass marble fixture grinding booth (ID No. 008), utilizing hand grinders, with a cartridge baghouse for particulate matter control, exhausting through one (1) stack, identified as EP008; and

(g) one (1) No. 2 distillate fuel oil fired boiler (ID No. 004), rated at 2.05 million (MM) British thermal units (Btu) per hour, exhausting through one (1) stack, identified as EP004.

Unpermitted Emission Units and Pollution Control Equipment

There are no unpermitted facilities operating at this source during this review process.

New Emission Units and Pollution Control Equipment Receiving New Source Review Approval

There are no new facilities proposed at this source during this review process.

Insignificant Activities

The source also consists of the following insignificant activities, as defined in 326 IAC 2-7-1(21):

(a) two (2) polyester resin storage tanks (ID Nos. 00291 and 00146), each with a storage capacity of 5,880 gallons, each exhausting through one (1) stack, identified as EP001 and EP002, respectively;

(b) one (1) fiberglass marble fixture buffing booth; and

(c) one (1) auxiliary electric pump for fire protection.

Existing Approvals

(a) CP 057-5071-00045, issued on June 19, 1996;

(b) FESOP F057-8653-00045, issued on October 14, 1997; and

(c) First Minor Modification MMF 057-10414-00045, issued on February 24, 1999.

All conditions from previous approvals were incorporated into this FESOP except the following:

(a) Frequencies for visible emissions notations have been changed to once per shift.

Reason changed: Compliance monitoring conditions are in the permit in order to ensure continuous compliance with the requirements. Control device failure can occur suddenly; therefore monitoring of relevant operational parameters should be more frequent than weekly or even daily in such cases where a source operates more than one shift per day. The OAQ believes that changing visible emissions notations to once per operating shift is necessary for the covered control device to assure the proper operation of the equipment. Therefore, the requirements to perform visible emissions notations have been changed from daily to once per shift.

(b) Emission Factors for fiberglass operations have been updated and are now based on the Unified Emission Factors for Open Molding of Composites, developed by the CFA for the Reinforced Plastics Industries, July 23, 2001. As a result, in order to limit the source emissions of single HAP and total HAPs to less than 10 tpy and 25 tpy, respectively, the material usage limitation has been adjusted from 5.5% to 3.0% of potential input usage based on 8,760 hours per year operation.

Enforcement Issue

(a) IDEM is aware that PM and PM10 testing at the fiberglass marble fixture grinding booth stack (ID No. EP008) was not conducted in accordance with Condition D.2.3 of FESOP 057-8653-00045;

(b) IDEM is reviewing this matter and will take appropriate action.

Recommendation

The staff recommends to the Commissioner that the FESOP Renewal be approved. This recommendation is based on the following facts and conditions:

Unless otherwise stated, information used in this review was derived from the application and additional information submitted by the applicant.

An administratively complete FESOP Renewal application for the purposes of this review was received on January 8, 2002.

There was no notice of completeness letter mailed to the source.

Emission Calculations

See Appendix A of this document for detailed emissions calculations (pages 1 to 7).

Unrestricted Potential Emissions

This table reflects the unrestricted potential emissions of the source, excluding the emission limits that were contained in the previous FESOP.

Pollutant	Unrestricted Potential Emissions (tons/yr)
PM	greater than 250
PM-10	greater than 250
SO_2	less than 25
VOC	greater than 250
CO	less than 25
NO_x	less than 25

Note: For the purpose of determining Title V applicability for particulates, PM-10, not PM, is the regulated pollutant in consideration.

HAP's	Unrestricted Potential Emissions (tons/yr)
Styrene	greater than 10
Toluene	less than 10
Xylene	less than 10
Cumene	less than 10
TOTAL	greater than 25

(a) The potential to emit (as defined in 326 IAC 2-1.1-1(16)) of PM_{10} and VOCs are equal to or greater than 100 tons per year. Therefore, the source is subject to the provisions of 326 IAC 2-7.

(b) The potential to emit (as defined in 326 IAC 2-1.1-1(16)) of any single HAP is equal to or greater than ten (10) tons per year and the potential to emit (as defined in 326 IAC 2-1.1-1(16)) of a combination HAPs is greater than or equal to twenty-five (25) tons per year. Therefore, the source is subject to the provisions of 326 IAC 2-7.

(c) Fugitive Emissions
Since this type of operation is not one of the twenty-eight (28) listed source categories under 326 IAC 2-2 and since there are no applicable New Source Performance Standards that were in effect on August 7, 1980, the fugitive emissions are not counted toward determination of PSD and Emission Offset applicability.

Potential to Emit After Issuance

The source, issued a FESOP on October 14, 1997, has opted to remain a FESOP source, rather than apply for a Part 70 Operating Permit. The table below summarizes the potential to emit, reflecting all limits, of the emission units. Any control equipment is considered enforceable only after issuance of this Federally Enforceable State Operating Permit and only to the extent that the effect of the control equipment is made practically enforceable in the permit. Since the source has not constructed any new emission units, the source's potential to emit is based on the emission units included in the original FESOP (F057-8653-00045; issued on October 14, 1997).

	Potential to Emit After Issuance (tons/year)							
Process/emission unit	PM	PM-10	SO_2	VOC	CO	NO_X	Single HAP	Total HAPs
Fiberglass Processes	4.87(1)	4.87(1)	0.00	< 25(2)	0.00	0.00	< 10(2)	< 25(2)
Sanding and Grinding	15.18(3)	15.18(3)	0.00	0.00	0.00	0.00	0.00	0.00
Combustion	0.10	0.10	4.60	0.00	0.30	1.30	negl.	negl.
Total PTE After Issuance	20.15	20.15	4.60	< 25	0.30	1.30	< 10	< 25

Notes:
1. Reflects the use of particulate matter control devices which shall be operated at all times the processes are in operation. Assumes all PM equal to PM_{10}.
2. Reflects the usage limitation required to limit the potential to emit of VOC to less than 25 tons per year, single HAP to less than 10 tons per year, and total HAPs to less than 25 tons per year, such that the requirements of 326 IAC 2-7 and 326 IAC 8-1-6 shall not apply.
3. Allowable PM emissions pursuant to 326 IAC 6-3-2. Assumes all PM equal to PM_{10}.

County Attainment Status

The source is located in Hamilton County.

Pollutant	Status
PM-10	Attainment
SO_2	Attainment
NO_2	Attainment
Ozone	Attainment
CO	Attainment
Lead	Attainment

(a) Volatile organic compounds (VOC) are precursors for the formation of ozone. Therefore, VOC emissions are considered when evaluating the rule applicability relating to the ozone standards. Hamilton County has been designated as attainment for ozone. Therefore, VOC emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2 and 40 CFR 52.21.

(b) Hamilton County has been classified as attainment or unclassifiable for the remaining criteria pollutants. Therefore, these emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2 and 40 CFR 52.21.

(c) Fugitive Emissions
Since this type of operation is not one of the twenty-eight (28) listed sources under 326 IAC 2-2 and since there are no applicable New Source Performance Standards that were in effect on August 7, 1980, the fugitive particulate matter (PM) and volatile organic compound (VOC) emissions are not counted toward determination of PSD and Emission Offset applicability.

Federal Rule Applicability

(a) There are no New Source Performance Standards (NSPS)(326 IAC 12 and 40 CFR Part 60) applicable to this source:

(1) The 2.05 MMBtu per hour No. 2 distillate fuel oil fired boiler is not subject to the requirements of the New Source Performance Standard, 326 IAC 12, (40 CFR 60.40c, Subpart Dc)(Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units). The provisions of this subpart apply to facilities that commenced construction or modification after June 9, 1989 and that have a maximum design heat input capacity of 29 megawatts (MW) (100 million Btu per hour (Btu/hr)) or less, but greater than or equal to 2.9 MW (10 million Btu/hr). The boiler for this source was constructed in 1970, prior to the rule applicability date, and the capacity of the boiler is 2.05 MMBtu per hour, less than the specified 10 MMBtu per hour. Therefore, the requirements of this rule do not apply to this facility.

(2) The two (2) 5,880 gallon polyester resin storage tanks are not subject to the requirements of the New Source Performance Standard, 326 IAC 12, (40 CFR 60.110b, Subpart Kb). The affected facility to which this subpart applies is each storage vessel with a capacity greater than or equal to 40 cubic meters (m^3) that is used to store volatile organic liquids (VOL's) for which construction, reconstruction, or modification is commenced after July 23, 1984. Each of the storage facilities for this source has a storage capacity of less than $40m^3$. Therefore, the requirements of this rule do not apply to these facilities.

(d) There are no National Emission Standards for Hazardous Air Pollutants (NESHAPs)(326 IAC 14 and 40 CFR Part 63) applicable to this source since the source is not a major source of hazardous air pollutants pursuant to 40 CFR Part 63.2. The source shall limit coating material usage such that single and combined HAP emissions are limited to less than 10 tpy and 25 tpy, respectively. Therefore, the source will remain a minor source of HAPs pursuant to 40 CFR Part 63.2.

State Rule Applicability - Entire Source

326 IAC 2-2 and 40 CFR 52.21 (Prevention of Significant Deterioration, PSD)

The existing source was initially constructed in 1996, after the August 7, 1977 rule applicability date. Although constructed after the rule applicability date, this source is not considered a major source because it is not one of the 28 listed source categories and it has the potential to emit after controls of less than 250 tons per year of any criteria pollutant. As a FESOP source the total input usage of VOC shall be limited to less than 100 tons per year, and the control technology and related compliance requirements for particulate shall limit the potential to emit of PM_{10} (and PM since PM equals PM_{10}) to less than 100 tons per year. Therefore, the requirements of 326 IAC 2-2 and 40 CFR 52.21 (Prevention of Significant Deterioration, PSD) shall not apply.

326 IAC 2-6 (Emission Reporting)

This source is located in Hamilton County which is not one of the specifically listed counties, nor does the source have the potential to emit CO, VOC, NO_x, PM_{10}, or SO_2 in amounts at or exceeding one-hundred (100) tons per year. Therefore, 326 IAC 2-6 does not apply.

326 IAC 2-8-4 (FESOP)

Pursuant to this rule the following condition shall apply to this fiberglass marble fixtures and flat marble surfaces manufacturing source:

(a) Use of resins and gel coats shall be limited such that the potential to emit (PTE) volatile organic compounds (VOC) from the two (2) gel coat spray booths (ID Nos. 007 and 003), the open resin blenders (ID No. 009), and the closed resin blenders (ID No. 005) shall be less than 25 tons per twelve (12) consecutive month period and such that the potential to emit any single HAP and total HAPs shall be less than 10 tons per twelve (12) consecutive month period and 25 tons per twelve (12) consecutive month period, respectively, where compliance is determined at the end of each month. Compliance with this limit for resins and gel coats shall be determined based upon the following criteria:

(1) Monthly usage by weight, weight percent monomer content that is VOC and HAP, method of application, and other emission reduction techniques for each gel coat and resin shall be recorded. VOC and HAP emissions shall be calculated by multiplying the usage of each gel coat and resin by the emission factor that is appropriate for the monomer content, method of application, and other emission reduction techniques for each gel coat and resin, and summing the emissions for all gel coats and resins. Emission factors shall be obtained from the reference approved by IDEM, OAQ.

(2) Until such time that new emissions information is made available by U.S. EPA in its AP-42 document or other U.S. EPA-approved form, emission factors shall be taken from the following reference approved by IDEM, OAQ: "Unified Emission Factors for Open Molding of Composites," Composites Fabricators Association, July 23, 2001, with the exception of the emission factors for controlled spray application. For operations not addressed by this reference, emission factors shall be taken from U.S. EPA's AP-42 document. For the purposes of these emission calculations, monomer in resins and gel coats that is not styrene or methyl methacrylate shall be considered as styrene on an equivalent weight basis.

(b) The total PM_{10} emitted from the source shall be controlled at less than 100 tons per year by complying with the applicable control technology operating, monitoring and record keeping requirements of sections D.1 and D.2.

326 IAC 5-1 (Opacity Limitations)

Pursuant to 326 IAC 5-1-2 (Opacity Limitations), except as provided in 326 IAC 5-1-3 (Temporary Alternative Opacity Limitations), opacity shall meet the following, unless otherwise stated in this permit:

(a) Opacity shall not exceed an average of forty percent (40%) any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.

(b) Opacity shall not exceed sixty percent (60%) for more than a cumulative total of fifteen (15) minutes (sixty (60) readings as measured according to 40 CFR 60, Appendix A, Method 9 or fifteen (15) one (1) minute nonoverlapping integrated averages for a continuous opacity monitor) in a six (6) hour period.

State Rule Applicability - Individual Facilities

326 IAC 6-2 (Particulate Emission Limitations for Sources of Indirect Heating)

The 2.05 MMBtu per hour No. 2 distillate fuel oil fired boiler is subject to 326 IAC 6-2 because it is located in Hamilton County and was existing prior to the September 21, 1983 rule applicability date. Pursuant to 326 IAC 6-2-2, the particulate matter (PM) emissions shall be limited to 0.78 pound per MMBtu heat input based on the following equation:

$Pt = 0.87/Q^{0.16}$

where: Pt = maximum allowable pounds of PM emitted per MMBtu heat input
Q = total source maximum heat input in MMBtu per hour

$Pt = 0.87/2.05^{0.16} = 0.78$ pound per MMBtu

However, 326 IAC 6-2-2(a) limits the maximum allowable pounds of PM per MMBtu to 0.6 for Q < 10 MMBtu per hour. Therefore, the 2.05 MMBtu per hour boiler shall be limited to 0.6 pounds PM per MMBtu heat input. The 2.05 MMBtu per hour boiler emits 0.01 pounds PM per MMBtu heat input, therefore, the boiler will comply with the limitation of 326 IAC 6-2-2. The compliance calculation is as follows:

Potential PM emissions = 0.1 tons/yr * 2000 lbs/ton / 8760 hrs/yr = 0.02 lbs/hr
Potential PM emissions = 0.02 lbs/hr / 2.05 MMBtu/hr = 0.01 lbs/MMBtu (will comply)

326 IAC 6-3-2 (Process Operations)

On June 12, 2002, revisions to 326 IAC 6-3 (Particulate Emission Limitations for Manufacturing Processes) became effective; this rule was previously referred to as 326 IAC 6-3 (Process Operations). As of the date this permit is being issued these revisions have not been approved by EPA into the Indiana State Implementation Plan (SIP); therefore, the following requirements from the previous version of 326 IAC 6-3 (Process Operations) which has been approved into the SIP will remain applicable requirements until the revisions to 326 IAC 6-3 are approved into the SIP and the condition is modified in a subsequent permit action.

The fiberglass marble panel sanding and cutting booth (ID No. 006) and the fiberglass marble fixture grinding booth (ID No. 008) are subject to particulate emission limitations under 326 IAC 6-3-2. Pursuant to this rule, particulate emissions from the sanding and cutting booth and the grinding booth shall be limited to 1.39 and 2.07 pounds per hour, respectively. Allowable emissions were calculated as follows:

Equation from 326 IAC 6-3-2: $E = 4.10 * (P^{0.67})$

(a) Drum Sander in Sanding and Cutting Booth
Process Weight, P = 0.20 tons/hr
Allowable Emission Rate, E = 1.39 lbs/hr = 6.11 tons/yr

(b) Hand Grinders in Grinding Booth
Process Weight, P = 0.36 tons/hr
Allowable Emission Rate, E = 2.07 lbs/hr = 9.07 tons/yr

Potential controlled emissions from the sanding and cutting booth and the grinding booth are 0.22 and 0.88 tons per year, respectively. Therefore, the sanding and cutting booth and the grinding booth will comply with 326 IAC 6-3-2.

(c) The particulate matter (PM) overspray from the two (2) gel coat spray booths (ID Nos. 003 and 007) shall be limited by the following:

Interpolation of the data for the process weight rate up to sixty thousand (60,000) pounds per hour shall be accomplished by use of the equation:

$E = 4.10\ P^{0.67}$ where E = rate of emission in pounds per hour and
P = process weight rate in tons per hour

Under the rule revision, particulate from the two (2) gel coat spray booths shall be controlled by a dry particulate filter and the Permittee shall operate the control device in accordance with manufacturer's specifications.

326 IAC 7-1.1-2 (Sulfur Dioxide Emission Limitations)

The 2.05 MMBtu per hour No. 2 distillate fuel oil fired boiler is not subject to the provisions of 326 IAC 7-1.1-2, because potential emissions of sulfur dioxide (SO_2) are less than 25 tons per year and less than 10 pounds per hour.

326 IAC 8-1-6 (New Facilities, General Reduction Requirements)

The fiberglass marble fixtures and panels manufacturing operation is not subject to the provisions of 326 IAC 8-1-6. This rule requires all facilities constructed after January 1, 1980, which have potential VOC emission rates of 25 or more tons per year, and which are not otherwise regulated by other provisions of 326 IAC 8, to reduce VOC emissions using Best Available Control Technology (BACT). This source has accepted federally enforceable operation conditions which limit resin, gel coat and solvent usage in the two (2) gel coat spray booths (ID Nos. 007 and 003), the open resin blenders (ID No. 009), and the closed resin blenders (ID No. 005) such that associated emissions of a single HAP are limited to less than 10 tons per year, in order to qualify for a FESOP under 326 IAC 2-8. This limitation automatically limits emissions of VOC and any combination of HAPs to less than 25 tons per year each. Potential limited VOC emissions will be less than 25 tons per year, therefore, the requirements of 326 IAC 8-1-6 do not apply. This VOC limitation will also render 326 IAC 2-7 and 326 IAC 2-2 not applicable.

No other Article 8 rules are applicable to this source.

326 IAC 20-25 (Emissions from Reinforced Plastics Composites Fabricating Emission Units)

This source is not subject to the requirements of 326 IAC 20-25 because it does not have the potential to emit ten (10) tons per year of any single HAP or twenty-five (25) tons per year of any combination of HAPs. Therefore, the requirements of 326 IAC 20-25 (Emissions from Reinforced Plastics Composites Fabricating Emission Units) do not apply.

Testing Requirements

All testing requirements from previous approvals were incorporated into this FESOP.

No later than 90 days after issuance of this FESOP, in order to demonstrate compliance with Conditions D.2.1 and D.2.2, the Permittee shall perform PM and PM-10 testing for the fiberglass marble fixture grinding booth stack (ID No. EP008) utilizing methods as approved by the Commissioner. This test shall be repeated at least once every five (5) years from the date of this valid compliance demonstration. PM-10 includes filterable and condensible PM-10.

Testing is required on the fiberglass marble fixture grinding booth stack (ID No. EP008) because potential uncontrolled PM and PM10 emissions from this booth are each greater than 40% of the source wide potential to emit of these pollutants.

Previous stack tests to comply with this requirement were not conducted in accordance with FESOP 057-8653-00045.

Compliance Requirements

Permits issued under 326 IAC 2-8 are required to ensure that sources can demonstrate compliance with applicable state and federal rules on a more or less continuous basis. All state and federal rules contain compliance provisions, however, these provisions do not always fulfill the requirement for a more or less continuous demonstration. When this occurs IDEM, OAQ, in conjunction with the source, must develop specific conditions to satisfy 326 IAC 2-8-4. As a result, compliance requirements are divided into two sections: Compliance Determination Requirements and Compliance Monitoring Requirements.

Compliance Determination Requirements in Section D of the permit are those conditions that are found more or less directly within state and federal rules and the violation of which serves as grounds for enforcement action. If these conditions are not sufficient to demonstrate continuous compliance, they will be supplemented with Compliance Monitoring Requirements, also Section D of the permit. Unlike Compliance Determination Requirements, failure to meet Compliance Monitoring conditions would serve as a trigger for corrective actions and not grounds for enforcement action. However, a violation in relation to a compliance monitoring condition will arise through a source's failure to take the appropriate corrective actions within a specific time period.

The compliance monitoring requirements applicable to this source are as follows:

1. The two (2) gel coat spray booths (ID Nos. 007 and 003) have applicable compliance monitoring conditions as specified below:

    (a) The two (2) gel coat spray booths (ID Nos. 007 and 003) shall be controlled by a dry particulate filter, and the Permittee shall operate the control device in accordance with manufacturer's specifications.

    (b) Daily inspections shall be performed to verify the placement, integrity and particle loading of the filters. To monitor the performance of the dry filters, weekly observations shall be made of the overspray from the gel coat spray booth stacks (EP007 and EP003) while one or more of the booths are in operation. The Compliance Response Plan shall be followed whenever a condition exists which should result in a response step. Failure to take response steps in accordance with Section C - Compliance Monitoring Plan - Preparation, Implementation, Records, and Reports, shall be considered a violation of this permit.

    (c) Monthly inspections shall be performed of the particulate emissions from the stack and the presence of overspray on the rooftops and the nearby ground. The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when a noticeable change in overspray emission, or evidence of overspray emission is observed. The Compliance Response Plan shall be followed whenever a condition exists which should result in a response step. Failure to take response steps in accordance with Section C - Compliance Monitoring Plan - Preparation, Implementation, Records, and Reports, shall be considered a violation of this permit.

    (d) Additional inspections and preventive measures shall be performed as prescribed in the Preventive Maintenance Plan.

These monitoring conditions are necessary because the dry particulate filters for the two (2) gel coat spray booths (ID Nos. 007 and 003) must operate properly to ensure compliance with 326 IAC 6-3 (Particulate Emission Limitations for Manufacturing Processes) and 326 IAC 2-8 (FESOP).

2. The fiberglass marble panel sanding and cutting booth (ID No. 006) and the fiberglass marble fixture grinding booth (ID No. 008) have applicable compliance monitoring conditions as specified below:

(a) Visible emissions notations of the fiberglass marble panel sanding and cutting booth stack and the fiberglass marble fixture grinding booth stack exhaust shall be performed once per shift during normal daylight operations. A trained employee will record whether emissions are normal or abnormal. For processes operated continuously "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time. In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions. A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process. The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when an abnormal emission is observed.

(b) The Permittee shall record the total static pressure drop across each of the two baghouses used in conjunction with the sanding and cutting booth (ID No. 006) and the grinding booth (ID No. 008), at least once per shift when the sanding and cutting booth (ID No. 006) and the grinding booth (ID No. 008) are operation. When for any one reading, the pressure drop across either of the baghouses is outside the normal range of 1.0 and 3.0 inches of water or a range established during the latest stack test, the Permittee shall take reasonable response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a violation of this permit.

(c) An inspection shall be performed in the last month of each calender quarter of all bags controlling the sanding and cutting booth (ID No. 006) and the grinding booth (ID No. 008). A baghouse inspection shall be performed within three months of redirecting vents to the atmosphere and every three months thereafter. Inspections are optional when venting indoors. All defective bags shall be replaced.

(d) In the event that bag failure has been observed:

(1) For multi-compartment units, the affected compartments will be shut down immediately until the failed units have been repaired or replaced. Operations may continue only if there are no visible emissions or if the event qualifies as an emergency and the Permittee satisfies the emergency provisions of this permit (Section B- Emergency Provisions).

Within eight (8) business hours of the determination of failure, response steps according to the timetable described in the Compliance Response Plan shall be initiated. For any failure with corresponding response steps and timetable not described in the Compliance Response Plan, response steps shall be devised within eight (8) business hours of discovery of the failure and shall include a timetable for completion. Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a violation of this permit.

(2) For single compartment baghouses, failed units and the associated process will be shut down immediately until the failed units have been repaired or replaced. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).

These monitoring conditions are necessary because the baghouses for the sanding and cutting booth (ID No. 006) and the grinding booth (ID No. 008) must operate properly to ensure compliance with 326 IAC 6-3 (Particulate Emission Limitations for Manufacturing Processes) and 326 IAC 2-8 (FESOP).

Conclusion

The operation of this stationary fiberglass marble fixtures and flat marble surfaces manufacturing source shall be subject to the conditions of the attached proposed **(FESOP No.: F057-15198-00045).**

Appendix A: Emission Calculations

Company Name: Century Marble Company, Inc.
Address City IN Zip: 3525 State Road 32 West, Westfield, Indiana 46074
FESOP Renewal: 057-15198-00045
Reviewer: Linda Quigley/EVP
Date: October 24, 2002

Total Potential To Emit (tons/year)

	Emissions Generating Activity			
Pollutant	Fiberglass Processes	Sanding and Grinding	Hot Water Boiler	**TOTAL**
PM	243.65	3654.80	0.13	3898.58
PM10	243.65	3654.80	0.13	3898.58
SO2	negl.	negl.	4.55	4.55
NOx	negl.	negl.	1.28	1.28
VOC	373.10	negl.	0.02	373.12
CO	negl.	negl.	0.32	0.32
total HAPs	332.99	negl.	negl.	332.99
worst case single HAP	332.16 Styrene	negl.	negl.	332.16

Total emissions based on rated capacities at 8,760 hours/year.
**For the purposes of determining Title V applicability, PM10 (not PM) is the regulated pollutant in consideration

Limited Potential To Emit (tons/year)

	Emissions Generating Activity			
Pollutant	Fiberglass Processes	Sanding and Grinding	Hot Water Boiler	**TOTAL**
PM	4.87	1.10	0.13	6.10
PM10	4.87	1.10	0.13	6.10
SO2	negl.	negl.	4.55	4.55
NOx	negl.	negl.	1.28	1.28
VOC	11.19	negl.	0.02	11.21
CO	negl.	negl.	0.32	0.32
total HAPs	9.99	negl.	negl.	9.99
worst case single HAP	9.96 Styrene	negl.	negl.	9.96

Total emissions based on rated capacities at 8,760 hours/year after control.
**For the purposes of determining Title V applicability, PM10 (not PM) is the regulated pollutant in consideration

Appendix A: Emissions Calculations
Commercial/Institutional/Residential Combustors
#1 and #2 Fuel Oil

Company Name: Century Marble Company, Inc.
Address City IN Zip: 3525 State Road 32 West, Westfield, Indiana 46074
FESOP Renewal: 057-15198-00045
Reviewer: Linda Quigley/EVP
Date: October 24, 2002

Heat Input Capacity MMBtu/hr	Potential Throughput kgals/year	S = Weight % Sulfur
		0.5
2.05	128.271429	

	Pollutant				
	PM*	SO2	NOx	VOC	CO
Emission Factor in lb/kgal	2.0	71 *(142.0S)*	20.0	0.34	5.0
Potential Emission in tons/yr	0.13	4.55	1.28	0.02	0.32

Methodology

1 gallon of No. 2 Fuel Oil has a heating value of 140,000 Btu

Potential Throughput (kgals/year) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1kgal per 1000 gallon x 1 gal per 0.140 MM B

Emission Factors are from AP 42, Tables 1.3-1, 1.3-2, and 1.3-3 (SCC 1-03-005-01/02/03) Supplement E 9/98 (see erata file)
*PM emission factor is filterable PM only. Condensable PM emission factor is 1.3 lb/kgal.
Emission (tons/yr) = Throughput (kgals/ yr) x Emission Factor (lb/kgal)/2,000 lb/ton

See page 3 for HAPs emission calculations.

Appendix A: Emissions Calculations
Commercial/Institutional/Residential Combustors
#1 and #2 Fuel Oil
HAPs Emissions

Company Name: Century Marble Company, Inc.
Address City IN Zip: 3525 State Road 32 West, Westfield, Indiana 46074
FESOP Renewal: 057-15198-00045
Reviewer: Linda Quigley/EVP
Date: October 24, 2002

HAPs - Metals

	Arsenic	Beryllium	Cadmium	Chromium	Lead
Emission Factor in lb/mmBtu	4.0E-06	3.0E-06	3.0E-06	3.0E-06	9.0E-06
Potential Emission in tons/yr	3.59E-05	2.69E-05	2.69E-05	2.69E-05	8.08E-05

HAPs - Metals (continued)

	Mercury	Manganese	Nickel	Selenium
Emission Factor in lb/mmBtu	3.0E-06	6.0E-06	3.0E-06	1.5E-05
Potential Emission in tons/yr	2.69E-05	5.39E-05	2.69E-05	1.35E-04

Methodology

No data was available in AP-42 for organic HAPs.
Potential Emissions (tons/year) = Throughput (mmBtu/hr)*Emission Factor (lb/mmBtu)*8,760 hrs/yr / 2,000 lb/ton

Appendix A: Emissions Calculations
Form DD: Reinforced Plastics and Composites
Fiberglass Processes

Company Name: Century Marble Company, Inc.
Address City IN Zip: 3525 State Road 32 West, Westfield, Indiana 46074
FESOP Renewal: 057-15198-00045
Reviewer: Linda Quigley/EVP
Date: October 24, 2002

Potential Uncontrolled Emissions:

Material (as applied)	Density (Lb/Gal)	Weight % Styrene Monomer or VOC	Emission Factor lb styrene per ton gelcoat/ resin processed	Gal of Mat (gal/hr)	Potential VOC pounds per hour	Potential VOC pounds per day	Potential VOC tons per year	Particulate Potential ton/yr	lb VOC /gal solids	Transfer Efficiency
Gel Coat Booth #1										
Gel Coat	9.12	48.00%	605	14.36	39.62	950.79	173.52	149.14	n/a	50%
S-0280 Solvent	8.86	100.00%	100.00%	0.20	1.77	42.53	7.76	0.00	n/a	100%
Gel Coat Booth #2										
Gel Coat	9.12	48.00%	605	9.10	25.11	602.52	109.96	94.51	n/a	50%
S-0280 Solvent	8.86	100.00%	100.00%	0.02	0.18	4.25	0.78	0.00	n/a	100%
Open Resin Blenders										
Resin	10.00	34.00%	74	15.00	5.55	133.20	24.31	0.00	n/a	100%
TR-210 Release Agent	7.32	35.00%	100.00%	0.01	0.07	1.76	0.32	0.00	n/a	100%
S-0280 Solvent	8.86	100.00%	100.00%	0.41	3.63	87.18	15.91	0.00	n/a	100%
Closed Resin Blenders										
Resin	10.00	34.00%	74	15.00	5.55	133.20	24.31	0.00	n/a	100%
TR-210 Release Agent	7.32	35.00%	100.00%	0.01	0.07	1.76	0.32	0.00	n/a	100%
S-0280 Solvent	8.86	100.00%	100.00%	0.41	3.63	87.18	15.91	0.00	n/a	100%
Total Uncontrolled Potential to Emit:					85.18	2044.37	373.10	243.65		

	Input Usage Limitation VOC	Controlled VOC lbs per Hour	Controlled VOC lbs per Day	Controlled VOC tons per Year	Controlled PM tons/yr	PM Control Efficiency
Total Controlled Potential to Emit:	3.00%	2.56	61.33	11.19	4.87	98.00%

Methodology:

Potential VOC Pounds per Hour = Density of coating (lb/gal) * Gal of Material (gal/hour) * Emission Factor
Potential VOC Pounds per Day = Density of coating (lb/gal) * Gal of Material (gal/hour) * (24 hr/day) * Emission Factor
Potential VOC Tons per Year = Density of coating (lb/gal) * Gal of Material (gal/hour) * (8760 hr/yr) * (1 ton/2000 lbs) * Emission Factor
Particulate Potential Tons per Year = (gal/hour) * (lbs/gal) * (1- Weight % Volatiles) * (1-Transfer efficiency) *(8760 hrs/yr) *(1 ton/2000 lbs)
Pounds VOC per Gallon of Solids = (Density (lbs/gal) * Weight % organics) / (Volume % solids) * Transfer Efficiency
Total = Sum of the coatings + all solvents used
Controlled emission rate = uncontrolled emission rate * Input Usage Limitation (expressed as percent of potential input)
Total VOC input usage will be limited to 3.00% of potential input usage based on 8,760 hours per year operation in order to limit Single HAP and Total HAPs to less than 10 tpy and 25 tpy, respectively. This limit will also render the requirements of 326 IAC 8-1-6 (BACT) not applicable.
Emission Factors are based on the Unified Emission Factors for Open Molding of Composites, developed by the CFA for the Reinforced Plastics Industries, July 23, 2001.

Appendix A: Emissions Calculations
Form DD: Reinforced Plastics and Composites
Fiberglass Processes

Company Name: Century Marble Company, Inc.
Address City IN Zip: 3525 State Road 32 West, Westfield, Indiana 46074
FESOP Renewal: 057-15198-00045
Reviewer: Linda Quigley/EVP
Date: October 24, 2002

Potential Uncontrolled Emissions:

Material (as applied)	Density (Lb/Gal)	Weight % Styrene Monomer or VOC	Emission Factor lb styrene per ton gelcoat/ resin processed	Gal of Mat (gal/hr)	Potential VOC pounds per hour	Potential VOC pounds per day	Potential VOC tons per year	Particulate Potential ton/yr	lb VOC /gal solids	Transfer Efficiency
Gel Coat Booth #1										
Gel Coat	9.12	48.00%	605	14.36	39.62	950.79	173.52	149.14	n/a	50%
S-0280 Solvent	8.86	100.00%	100.00%	0.20	1.77	42.53	7.76	0.00	n/a	100%
Gel Coat Booth #2										
Gel Coat	9.12	48.00%	605	9.10	25.11	602.52	109.96	94.51	n/a	50%
S-0280 Solvent	8.86	100.00%	100.00%	0.02	0.18	4.25	0.78	0.00	n/a	100%
Open Resin Blenders										
Resin	10.00	34.00%	74	15.00	5.55	133.20	24.31	0.00	n/a	100%
TR-210 Release Agent	7.32	35.00%	100.00%	0.01	0.07	1.76	0.32	0.00	n/a	100%
S-0280 Solvent	8.86	100.00%	100.00%	0.41	3.63	87.18	15.91	0.00	n/a	100%
Closed Resin Blenders										
Resin	10.00	34.00%	74	15.00	5.55	133.20	24.31	0.00	n/a	100%
TR-210 Release Agent	7.32	35.00%	100.00%	0.01	0.07	1.76	0.32	0.00	n/a	100%
S-0280 Solvent	8.86	100.00%	100.00%	0.41	3.63	87.18	15.91	0.00	n/a	100%
Total Uncontrolled Potential to Emit:					85.18	2044.37	373.10	243.65		

	Input Usage Limitation VOC	Controlled VOC lbs per Hour	Controlled VOC lbs per Day	Controlled VOC tons per Year	Controlled PM tons/yr	PM Control Efficiency
Total Controlled Potential to Emit:	3.00%	2.56	61.33	11.19	4.87	98.00%

Methodology:

Potential VOC Pounds per Hour = Density of coating (lb/gal) * Gal of Material (gal/hour) * Emission Factor
Potential VOC Pounds per Day = Density of coating (lb/gal) * Gal of Material (gal/hour) * (24 hr/day) * Emission Factor
Potential VOC Tons per Year = Density of coating (lb/gal) * Gal of Material (gal/hour) * (8760 hr/yr) * (1 ton/2000 lbs) * Emission Factor
Particulate Potential Tons per Year = (gal/hour) * (lbs/gal) * (1- Weight % Volatiles) * (1-Transfer efficiency) *(8760 hrs/yr) *(1 ton/2000 lbs)
Pounds VOC per Gallon of Solids = (Density (lbs/gal) * Weight % organics) / (Volume % solids) * Transfer Efficiency
Total = Sum of the coatings + all solvents used
Controlled emission rate = uncontrolled emission rate * Input Usage Limitation (expressed as percent of potential input)
Total VOC input usage will be limited to 3.00% of potential input usage based on 8,760 hours per year operation in order to limit Single HAP and Total HAPs to less than 10 tpy and 25 tpy, respectively. This limit will also render the requirements of 326 IAC 8-1-6 (BACT) not applicable.
Emission Factors are based on the Unified Emission Factors for Open Molding of Composites, developed by the CFA for the Reinforced Plastics Industries, July 23, 2001.

Appendix A: Emission Calculations
HAP Emissions - Potential To Emit

Company Name: Century Marble Company, Inc.
Address City IN Zip: 3525 State Road 32 West, Westfield, Indiana 46074
FESOP Renewal: 057-15198-00045
Reviewer: Linda Quigley/EVP
Date: October 24, 2002

Potential To Emit											
Material	Density (lb/gal)	Max. Gallons per hour	Emission Factor l/b styrene per ton gelcoat/resin processed	Weight % Styrene	Weight % Toluene	Weight % Xylene	Weight % Cumene	Styrene Emissions (tons/yr)	Toluene Emissions (tons/yr)	Xylene Emissions (tons/yr)	Cumene Emissions (tons/yr)
Booth #1											
Gel Coat	9.12	14.36	605	48.00%	0.00%	0.00%	0.00%	173.57	0.00	0.00	0.00
S-0280 Solvent	8.86	0.20	100%	0.00%	0.00%	0.00%	0.00%	0.00	0.00	0.00	0.00
Booth #2											
Gel Coat	9.12	9.10	605	48.00%	0.00%	0.00%	0.00%	109.97	0.00	0.00	0.00
S-0280 Solvent	8.86	0.02	100%	0.00%	0.00%	0.00%	0.00%	0.00	0.00	0.00	0.00
Open Resin Blenders											
Resin	10.00	15.00	74	34.00%	0.00%	0.00%	0.00%	24.31	0.00	0.00	0.00
TR-210 Release Agent	7.32	0.01	100%	0.00%	80.00%	7.50%	7.50%	0.00	0.35	0.03	0.03
S-0280 Solvent	8.86	0.41	100%	0.00%	0.00%	0.00%	0.00%	0.00	0.00	0.00	0.00
Closed Resin Blenders											
Resin	10.00	15.00	74	34.00%	0.00%	0.00%	0.00%	24.31	0.00	0.00	0.00
TR-210 Release Agent	7.32	0.01	100%	0.00%	80.00%	7.50%	7.50%	0.00	0.35	0.03	0.03
S-0280 Solvent	8.86	0.41	100%	0.00%	0.00%	0.00%	0.00%	0.00	0.00	0.00	0.00
								332.16	0.70	0.07	0.07

Total Potential Emissions: 332.99

Methodology:

HAPs emission rate (tons/yr) = density (lb/gal) * (gal/hour) * weight % HAP * emission factor * (8,760 hrs/yr) * (1 ton/2,000 lb)

Emission Factors are based on the Unified Emission Factors for Open Molding of Composites, developed by the CFA for the Reinforced Plastics Industries, July 23, 2001.

Appendix A: Emission Calculations
HAP Emissions - Potential To Emit

Company Name: Century Marble Company, Inc.
Address City IN Zip: 3525 State Road 32 West, Westfield, Indiana 46074
FESOP Renewal: 057-15198-00045
Reviewer: Linda Quigley/EVP
Date: October 24, 2002

Limited Emissions												
Material	Density (lb/gal)	Max. Gallons per hour	Emission Factor l/b styrene per ton gelcoat/resin processed	Weight % Styrene	Weight % Toluene	Weight % Xylene	Weight % Cumene	Material Usage Limitation	Styrene Emissions (tons/yr)	Toluene Emissions (tons/yr)	Xylene Emissions (tons/yr)	Cumene Emissions (tons/yr)
Booth #1												
Gel Coat	9.12	14.36	605	48.00%	0.00%	0.00%	0.00%	3.00%	5.21	0.00	0.00	0.00
S-0280 Solvent	8.86	0.20	100%	0.00%	0.00%	0.00%	0.00%	3.00%	0.00	0.00	0.00	0.00
Booth #2												
Gel Coat	9.12	9.10	605	48.00%	0.00%	0.00%	0.00%	3.00%	3.30	0.00	0.00	0.00
S-0280 Solvent	8.86	0.02	100%	0.00%	0.00%	0.00%	0.00%	3.00%	0.00	0.00	0.00	0.00
Open Resin Blenders												
Resin	10.00	15.00	74	34.00%	0.00%	0.00%	0.00%	3.00%	0.73	0.00	0.00	0.00
TR-210 Release Agent	7.32	0.01	100%	0.00%	80.00%	7.50%	7.50%	3.00%	0.00	0.01	0.00	0.00
S-0280 Solvent	8.86	0.41	100%	0.00%	0.00%	0.00%	0.00%	3.00%	0.00	0.00	0.00	0.00
Closed Resin Blenders										0.00		
Resin	10.00	15.00	74	34.00%	0.00%	0.00%	0.00%	3.00%	0.73	0.00	0.00	0.00
TR-210 Release Agent	7.32	0.01	100%	0.00%	80.00%	7.50%	7.50%	3.00%	0.00	0.01	0.00	0.00
S-0280 Solvent	8.86	0.41	100%	0.00%	0.00%	0.00%	0.00%	3.00%	0.00	0.00	0.00	0.00
									9.96	0.02	0.00	0.00

Limited Emissions: **9.99**

Methodology:
HAPs emission rate (tons/yr) = density (lb/gal) * (gal/hour) * weight % HAP * emission factor * (8,760 hrs/yr) * (1 ton/2,000 lb)

At a 3.00% material usage limit, single HAP and total HAP emissions are limited to less than 10 and 25 tons per year, respectively, based on 8,760 hours per year operation.
Emission Factors are based on the Unified Emission Factors for Open Molding of Composites, developed by the CFA for the Reinforced Plastics Industries, July 23, 2001.

Addendum to Appendix A: Emission Calculations

Company Name: Century Marble Company, Inc.
Address City IN Zip: 3525 State Road 32 West, Westfield, Indiana 46074
FESOP Renewal: 057-15198-00045
Reviewer: Linda Quigley/EVP
Date: October 24, 2002

Total Potential To Emit (tons/year)

	Emissions Generating Activity			
Pollutant	Fiberglass Processes	Sanding and Grinding	Hot Water Boiler	**TOTAL**
PM	149.14	3654.80	0.13	3804.07
PM10	149.14	3654.80	0.13	3804.07
SO2	negl.	negl.	4.55	4.55
NOx	negl.	negl.	1.28	1.28
VOC	262.36	negl.	0.02	262.38
CO	negl.	negl.	0.32	0.32
total HAPs	223.02	negl.	negl.	223.02
worst case single HAP	222.19 Styrene	negl.	negl.	222.19

Total emissions based on rated capacities at 8,760 hours/year.
**For the purposes of determining Title V applicability, PM10 (not PM) is the regulated pollutant in consideration

Limited Potential To Emit (tons/year)

	Emissions Generating Activity			
Pollutant	Fiberglass Processes	Sanding and Grinding	Hot Water Boiler	**TOTAL**
PM	2.98	1.10	0.13	4.21
PM10	2.98	1.10	0.13	4.21
SO2	negl.	negl.	4.55	4.55
NOx	negl.	negl.	1.28	1.28
VOC	11.75	negl.	0.02	11.77
CO	negl.	negl.	0.32	0.32
total HAPs	9.99	negl.	negl.	9.99
worst case single HAP	9.95 Styrene	negl.	negl.	9.95

Total emissions based on rated capacities at 8,760 hours/year after control.
**For the purposes of determining Title V applicability, PM10 (not PM) is the regulated pollutant in consideration

Addendum to Appendix A: Emissions Calculations
Form DD: Reinforced Plastics and Composites
Fiberglass Processes

Company Name: Century Marble Company, Inc.
Address City IN Zip: 3525 State Road 32 West, Westfield, Indiana 46074
FESOP Renewal: 057-15198-00045
Reviewer: Linda Quigley/EVP
Date: October 24, 2002

Potential Uncontrolled Emissions:

Material (as applied)	Density (Lb/Gal)	Weight % Styrene Monomer or VOC	Emission Factor lb styrene per ton gelcoat/ resin processed	Gal of Mat (gal/hr)	Potential VOC pounds per hour	Potential VOC pounds per day	Potential VOC tons per year	Particulate Potential ton/yr	lb VOC /gal solids	Transfer Efficiency
Gel Coat Booth #1										
Gel Coat	9.12	48.00%	605	14.36	39.62	950.79	173.52	149.14	n/a	50%
S-0280 Solvent	8.86	100.00%	100.00%	0.20	1.77	42.53	7.76	0.00	n/a	100%
Open Resin Blenders										
Resin	10.00	34.00%	74	15.00	5.55	133.20	24.31	0.00	n/a	100%
TR-210 Release Agent	7.32	35.00%	100.00%	0.01	0.07	1.76	0.32	0.00	n/a	100%
S-0280 Solvent	8.86	100.00%	100.00%	0.41	3.63	87.18	15.91	0.00	n/a	100%
Closed Resin Blenders										
Resin	10.00	34.00%	74	15.00	5.55	133.20	24.31	0.00	n/a	100%
TR-210 Release Agent	7.32	35.00%	100.00%	0.01	0.07	1.76	0.32	0.00	n/a	100%
S-0280 Solvent	8.86	100.00%	100.00%	0.41	3.63	87.18	15.91	0.00	n/a	100%
Total Uncontrolled Potential to Emit:					59.90	1437.60	262.36	149.14		

	Input Usage Limitation VOC	Controlled VOC lbs per Hour	Controlled VOC lbs per Day	Controlled VOC tons per Year	Controlled PM tons/yr	PM Control Efficiency
Total Controlled Potential to Emit:	4.48%	2.68	64.40	11.75	2.98	98.00%

Methodology:

Potential VOC Pounds per Hour = Density of coating (lb/gal) * Gal of Material (gal/hour) * Emission Factor
Potential VOC Pounds per Day = Density of coating (lb/gal) * Gal of Material (gal/hour) * (24 hr/day) * Emission Factor
Potential VOC Tons per Year = Density of coating (lb/gal) * Gal of Material (gal/hour) * (8760 hr/yr) * (1 ton/2000 lbs) * Emission Factor
Particulate Potential Tons per Year = (gal/hour) * (lbs/gal) * (1- Weight % Volatiles) * (1-Transfer efficiency) *(8760 hrs/yr) *(1 ton/2000 lbs)
Pounds VOC per Gallon of Solids = (Density (lbs/gal) * Weight % organics) / (Volume % solids) * Transfer Efficiency
Total = Sum of the coatings + all solvents used
Controlled emission rate = uncontrolled emission rate * Input Usage Limitation (expressed as percent of potential input)
Total VOC input usage will be limited to 4.48% of potential input usage based on 8,760 hours per year operation in order to limit Single HAP and Total HAPs to less than 10 tpy and 25 tpy, respectively. This limit will also render the requirements of 326 IAC 8-1-6 (BACT) not applicable.
Emission Factors are based on the Unified Emission Factors for Open Molding of Composites, developed by the CFA for the Reinforced Plastics Industries, July 23, 2001.

Addendum to Appendix A: Emission Calculations
HAP Emissions - Potential To Emit

Company Name: Century Marble Company, Inc.
Address City IN Zip: 3525 State Road 32 West, Westfield, Indiana 46074
FESOP Renewal: 057-15198-00045
Reviewer: Linda Quigley/EVP
Date: October 24, 2002

Potential To Emit											
Material	Density (lb/gal)	Max. Gallons per hour	Emission Factor l/b styrene per ton gelcoat/resin processed	Weight % Styrene	Weight % Toluene	Weight % Xylene	Weight % Cumene	Styrene Emissions (tons/yr)	Toluene Emissions (tons/yr)	Xylene Emissions (tons/yr)	Cumene Emissions (tons/yr)
Booth #1											
Gel Coat	9.12	14.36	605	48.00%	0.00%	0.00%	0.00%	173.57	0.00	0.00	0.00
S-0280 Solvent	8.86	0.20	100%	0.00%	0.00%	0.00%	0.00%	0.00	0.00	0.00	0.00
Open Resin Blenders											
Resin	10.00	15.00	74	34.00%	0.00%	0.00%	0.00%	24.31	0.00	0.00	0.00
TR-210 Release Agent	7.32	0.01	100%	0.00%	80.00%	7.50%	7.50%	0.00	0.35	0.03	0.03
S-0280 Solvent	8.86	0.41	100%	0.00%	0.00%	0.00%	0.00%	0.00	0.00	0.00	0.00
Closed Resin Blenders											
Resin	10.00	15.00	74	34.00%	0.00%	0.00%	0.00%	24.31	0.00	0.00	0.00
TR-210 Release Agent	7.32	0.01	100%	0.00%	80.00%	7.50%	7.50%	0.00	0.35	0.03	0.03
S-0280 Solvent	8.86	0.41	100%	0.00%	0.00%	0.00%	0.00%	0.00	0.00	0.00	0.00
								222.19	0.70	0.07	0.07

Total Potential Emissions: 223.02

Methodology:

HAPs emission rate (tons/yr) = density (lb/gal) * (gal/hour) * weight % HAP * emission factor * (8,760 hrs/yr) * (1 ton/2,000 lb)

Emission Factors are based on the Unified Emission Factors for Open Molding of Composites, developed by the CFA for the Reinforced Plastics Industries, July 23, 2001.

Addendum to Appendix A: Emission Calculations
HAP Emissions - Potential To Emit

Company Name: Century Marble Company, Inc.
Address City IN Zip: 3525 State Road 32 West, Westfield, Indiana 46074
FESOP Renewal: 057-15198-00045
Reviewer: Linda Quigley/EVP
Date: October 24, 2002

Limited Emissions												
Material	Density (lb/gal)	Max. Gallons per hour	Emission Factor l/b styrene per ton gelcoat/resin processed	Weight % Styrene	Weight % Toluene	Weight % Xylene	Weight % Cumene	Material Usage Limitation	Styrene Emissions (tons/yr)	Toluene Emissions (tons/yr)	Xylene Emissions (tons/yr)	Cumene Emissions (tons/yr)
Booth #1												
Gel Coat	9.12	14.36	605	48.00%	0.00%	0.00%	0.00%	4.48%	7.78	0.00	0.00	0.00
S-0280 Solvent	8.86	0.20	100%	0.00%	0.00%	0.00%	0.00%	4.48%	0.00	0.00	0.00	0.00
Open Resin Blenders												
Resin	10.00	15.00	74	34.00%	0.00%	0.00%	0.00%	4.48%	1.09	0.00	0.00	0.00
TR-210 Release Agent	7.32	0.01	100%	0.00%	80.00%	7.50%	7.50%	4.48%	0.00	0.02	0.00	0.00
S-0280 Solvent	8.86	0.41	100%	0.00%	0.00%	0.00%	0.00%	4.48%	0.00	0.00	0.00	0.00
Closed Resin Blenders										0.00		
Resin	10.00	15.00	74	34.00%	0.00%	0.00%	0.00%	4.48%	1.09	0.00	0.00	0.00
TR-210 Release Agent	7.32	0.01	100%	0.00%	80.00%	7.50%	7.50%	4.48%	0.00	0.02	0.00	0.00
S-0280 Solvent	8.86	0.41	100%	0.00%	0.00%	0.00%	0.00%	4.48%	0.00	0.00	0.00	0.00
									9.95	0.03	0.00	0.00

Limited Emissions: **9.99**

Methodology:
HAPs emission rate (tons/yr) = density (lb/gal) * (gal/hour) * weight % HAP * emission factor * (8,760 hrs/yr) * (1 ton/2,000 lb)

At a 4.48% material usage limit, single HAP and total HAP emissions are limited to less than 10 and 25 tons per year, respectively, based on 8,760 hours per year operation.
Emission Factors are based on the Unified Emission Factors for Open Molding of Composites, developed by the CFA for the Reinforced Plastics Industries, July 23, 2001.